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| NEWS 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS 2 | Apr 08 | "Ask CAS" for self-help around the clock |
| NEWS 3 | Jun 03 | New e-mail delivery for search results now available |
| NEWS 4 | Aug 08 | PHARMAMarketLetter(PHARMAML) - new on STN |
| NEWS 5 | Aug 19 | Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN |
| NEWS 6 | Aug 26 | Sequence searching in REGISTRY enhanced |
| NEWS 7 | Sep 03 | JAPIO has been reloaded and enhanced |
| NEWS 8 | Sep 16 | Experimental properties added to the REGISTRY file |
| NEWS 9 | Sep 16 | CA Section Thesaurus available in CAPLUS and CA |
| NEWS 10 | Oct 01 | CASREACT Enriched with Reactions from 1907 to 1985 |
| NEWS 11 | Oct 24 | BEILSTEIN adds new search fields |
| NEWS 12 | Oct 24 | Nutraceuticals International (NUTRACEUT) now available on STN |
| NEWS 13 | Nov 18 | DKILIT has been renamed APOLLIT |
| NEWS 14 | Nov 25 | More calculated properties added to REGISTRY |
| NEWS 15 | Dec 04 | CSA files on STN |
| NEWS 16 | Dec 17 | PCTFULL now covers WP/PCT Applications from 1978 to date |
| NEWS 17 | Dec 17 | TOXCENTER enhanced with additional content |
| NEWS 18 | Dec 17 | Adis Clinical Trials Insight now available on STN |
| NEWS 19 | Jan 29 | Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC |
| NEWS 20 | Feb 13 | CANCERLIT is no longer being updated |
| NEWS 21 | Feb 24 | METADEX enhancements |
| NEWS 22 | Feb 24 | PCTGEN now available on STN |
| NEWS 23 | Feb 24 | TEMA now available on STN |
| NEWS 24 | Feb 26 | NTIS now allows simultaneous left and right truncation |
| NEWS 25 | Feb 26 | PCTFULL now contains images |
| NEWS 26 | Mar 04 | SDI PACKAGE for monthly delivery of multifile SDI results |
| NEWS 27 | Mar 19 | APOLLIT offering free connect time in April 2003 |
| NEWS 28 | Mar 20 | EVENTLINE will be removed from STN |
| NEWS 29 | Mar 24 | PATDPAFULL now available on STN |
| NEWS 30 | Mar 24 | Additional information for trade-named substances without structures available in REGISTRY |
| NEWS 31 | Apr 11 | Display formats in DGENE enhanced |
| NEWS 32 | Apr 14 | MEDLINE Reload |
| NEWS 33 | Apr 17 | Polymer searching in REGISTRY enhanced |
| NEWS 34 | Apr 21 | Indexing from 1947 to 1956 being added to records in CA/CAPLUS |

| | |
|---|---|
| NEWS EXPRESS | April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003 |
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | General Internet Information |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | CAS World Wide Web Site (general information) |

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=> fil reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 APR 2003 HIGHEST RN 503529-60-0
DICTIONARY FILE UPDATES: 20 APR 2003 HIGHEST RN 503529-60-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e polyoxyalkylene/cn

| | | |
|---|---|---|
| E1 | 1 | POLYOXY 23 LAURYL ETHER/CN |
| E2 | 1 | POLYOXY 40 STEARATE/CN |
| E3 | 0 --> | POLYOXYALKYLENE/CN |
| E4 | 1 | POLYOXYALKYLENE GLUCOSE TETRAOLEATE/CN |
| E5 | 1 | POLYOXYALKYLENE GLUCOSE TETRASTEARATE/CN |
| E6 | 1 | POLYOXYALKYLENE GROUP-CONTG. SPANDEX FIBERS/CN |
| E7 | 1 | POLYOXYALKYLENE- URETHANE RUBBER/CN |
| E8 | 1 | POLYOXYALKYLENE-DI-ME SILOXANES, BUTOXY-TERMINATED/CN |
| E9 | 1 | POLYOXYALKYLENE-DI-ME SILOXANES, EPOXY-CONTG./CN |
| E10 | 1 | POLYOXYALKYLENE-DI-ME, ME HYDROGEN SILOXANES/CN |
| E11 | 1 | POLYOXYALKYLENE-POLYSILOXANES/CN |
| E12 | 1 | POLYOXYALKYLENE-POLYSILOXANES, BLOCK/CN |

=> e polyoxyalkylene

| | | |
|---|---|---|
| E1 | 1 | POLYOXPROPYLENE/BI |
| E2 | 1117 | POLYOXY/BI |
| E3 | 104 --> | POLYOXYALKYLENE/BI |
| E4 | 1 | POLYOXYALKYLENEPOLY/BI |
| E5 | 1 | POLYOXYALKYLENEPOLYSILOXANE/BI |
| E6 | 1 | POLYOXYALKYLENEPOLYSILOXANES/BI |
| E7 | 34 | POLYOXYALKYLENES/BI |

```
E8            2      POLYOXYALKYLENESILOXANE/BI
E9            2      POLYOXYALKYLENESILOXANES/BI
E10           1      POLYOXYALUMINUM/BI
E11           1      POLYOXYAR/BI
E12           1      POLYOXYARYL/BI

=> s e3
L1          104 POLYOXYALKYLENE/BI

=> s e1
L2            1 POLYOXPROPYLENE/BI

=> s e7
L3           34 POLYOXYALKYLENES/BI

=> s l1 or l2 or l3
L4          105 L1 OR L2 OR L3

=> fil .search
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               13.06      13.27

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FILE 'USPATFULL' ENTERED AT 12:26:44 ON 21 APR 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'EMBASE' ENTERED AT 12:26:44 ON 21 APR 2003
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=> s l4
L5       152416 L4

=> s l5 and (copolymer?)
L6        36648 L5 AND (COPOLYMER?)

=> s l6 and linear(w)block?
L7           77 L6 AND LINEAR(W) BLOCK?

=> dup rem l7
PROCESSING COMPLETED FOR L7
L8            77 DUP REM L7 (0 DUPLICATES REMOVED)

=> d ibib ab 1-
YOU HAVE REQUESTED DATA FROM 77 ANSWERS - CONTINUE? Y/(N):y
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L8 ANSWER 1 OF 77 USPATFULL
ACCESSION NUMBER: 2002:259496 USPATFULL
TITLE: Low turbidity microemulsions
INVENTOR(S): Aust, Duncan T., Ridge, NY, UNITED STATES
PATENT ASSIGNEE(S): Collaborative Technologies, Inc. (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 2002143072 | A1 | 20021003 |
| APPLICATION INFO.: | US 2001-774988 | A1 | 20010131 (9) |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: DARBY & DARBY P.C., 850 Third Avenue, New York, NY, 10022
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 878
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to low turbidity microemulsions which contain reduced amounts of surfactants, i.e., emulsifying agents. Methods of making such microemulsions are also disclosed. The invention also provides for pharmaceutical or cosmetic formulations based on the microemulsions described herein, containing one or more pharmacological or cosmetic agents, and methods of using such formulations.

L8 ANSWER 2 OF 77 USPATFULL
ACCESSION NUMBER: 2002:214393 USPATFULL
TITLE: Active-compound-containing emulsions
INVENTOR(S): Nyssen, Peter-Roger, Dormagen, GERMANY, FEDERAL REPUBLIC OF
Spetmann, Peter, Krefeld, GERMANY, FEDERAL REPUBLIC OF

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 2002115783 | A1 | 20020822 |
| | US 6494941 | B2 | 20021217 |
| APPLICATION INFO.: | US 2001-968826 | A1 | 20011001 (9) |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | DE 2000-10048797 | 20001002 |
| | DE 2001-142453 | 20010831 |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BAYER CORPORATION, PATENT DEPARTMENT, 100 BAYER ROAD, PITTSBURGH, PA, 15205
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
LINE COUNT: 600
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Emulsions of an aqueous or an aqueous-organic continuous phase and an organic discontinuous phase, the latter containing at least

a) a combination of active compounds tebuconazole and propiconazole

b) one phenol/styrene polyglycol ether of the formula (I) ##STR1##

where m=2.7 and n=2 to 13

c) and, if appropriate, an organic solvent which is not miscible with water,

wherein the combination of tebuconazole and propiconazole is dissolvable completely at 20.degree. C. in the a phenol/styrene polyglycol ether of the formula (I) or, optionally, together in (i) the phenol/styrene polyglycol ether of the-formula (I) and (ii) the organic solvent that is not miscible with water, at a content of more than 0.1% by weight, based on the total weight of the organic phase. Methods for making and using such emulsions.

L8 ANSWER 3 OF 77 USPATFULL
ACCESSION NUMBER: 2002:119993 USPATFULL
TITLE: Compositions comprising hydrogenated block **copolymers** and end-use applications thereof
INVENTOR(S): Donald, Robert J., Midland, MI, UNITED STATES
Hahnfeld, Jerry L., Midland, MI, UNITED STATES
Parsons, Gary D., Midland, MI, UNITED STATES
Hahn, Stephen F., Midland, MI, UNITED STATES
Patel, Rajen M., Lake Jackson, TX, UNITED STATES
Esneault, Calvin P., Baton Rouge, LA, UNITED STATES
Phipps, Laura M., Rochelle, VA, UNITED STATES
Pate, James E., III, Sanford, MI, UNITED STATES
Bhattacharjee, Debkumar, Lake Jackson, TX, UNITED STATES

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 2002061982 | A1 | 20020523 |
| APPLICATION INFO.: | US 2001-944423 | A1 | 20010831 (9) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2000-575063, filed on 19 May 2000, PENDING | | |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | US 1999-139075P | 19990611 (60) |
| | US 1999-146008P | 19990728 (60) |
| | US 2000-193313P | 20000330 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: THE DOW CHEMICAL COMPANY, INTELLECTUAL PROPERTY SECTION, P. O. BOX 1967, MIDLAND, MI, 48641-1967
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 2508
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Flexible hydrogenated block **copolymers** can be successfully used in a variety of applications including films, profiles, sheets, coatings, injection molded articles, blow or rotational molded articles and pultruded articles.

L8 ANSWER 4 OF 77 USPATFULL
ACCESSION NUMBER: 2002:48664 USPATFULL
TITLE: Compostable, degradable plastic compositions and articles thereof
INVENTOR(S): Holy, Norman L., Yardley, PA, UNITED STATES

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 2002028857 | A1 | 20020307 |
| APPLICATION INFO.: | US 2001-820916 | A1 | 20010330 (9) |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | US 2000-193449P | 20000331 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747
NUMBER OF CLAIMS: 96
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 3903
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to thermoplastic compositions which are degradable and/or compostable, the method of preparation of the degradable and/or compostable compositions and use of the degradable and/or compostable compositions in a monofilament, shaped article or film, or may be used as a coating, e.g., of paper, to achieve a stronger article. These compositions have the advantage over existing biodegradable and compostable compositions by exhibiting a higher dimensional stability and comparatively low cost.

L8 ANSWER 5 OF 77 USPATFULL
ACCESSION NUMBER: 2002:175236 USPATFULL
TITLE: Tear resistant elastic crystal gels gel composites and their uses
INVENTOR(S): Chen, John Y., Pacifica, CA, United States
PATENT ASSIGNEE(S): Applied Elastomerics, Inc., South San Francisco, CA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 6420475 | B1 | 20020716 |
| APPLICATION INFO.: | US 1999-274498 | | 19990328 (9) |

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-130545, filed on 8 Aug 1998 Continuation-in-part of Ser. No. US 1997-984459, filed on 3 Dec 1997 Continuation-in-part of Ser. No. WO 1997-US17534, filed on 30 Sep 1997 Continuation-in-part of Ser. No. US 1997-909487, filed on 12 Jul 1997 Continuation-in-part of Ser. No. US 1997-863794, filed on 27 May 1997 Continuation-in-part of Ser. No. US 1997-819675, filed on 17 Mar 1997, now patented, Pat. No. US 5884639 Continuation-in-part of Ser. No. US 1996-719817, filed on 30 Sep 1996 Continuation-in-part of Ser. No. US 1996-665343, filed on 17 Jun 1996 Continuation-in-part of Ser. No. US 1996-612586, filed on 8 Mar 1996 Continuation-in-part of Ser. No. US 274498 Continuation-in-part of Ser. No. US 1995-581125, filed on 29 Dec 1995, now patented, Pat. No. US 5962572 Continuation-in-part of Ser. No. US 1995-581191, filed on 29 Dec 1995, now patented, Pat. No. US 5760117 Continuation-in-part of Ser. No. US 1995-581188, filed on 29 Dec 1995, now abandoned Continuation-in-part of Ser. No. US 1994-288690, filed on 11 Aug 1994, now patented, Pat. No. US 5633286 Continuation-in-part of Ser. No. WO 1994-US7314, filed on 27 Jun 1994 Continuation-in-part of Ser. No. WO 1994-US4278, filed on 19 Apr 1994 Continuation-in-part of Ser. No. US 288690 Continuation-in-part of Ser. No. WO US9407314 Continuation-in-part of Ser. No. US 288690 Continuation-in-part of Ser. No. WO US9407314
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Sanders, Kriellion
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 44 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 2204
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel crystal gels and articles are formed from one or more **copolymers** having at least one crystalline poly(ethylene) components and high levels of a plasticizer, said midblock segment having an amount of crystallinity sufficient to achieve improvements in one or more physical properties including improved crack propagation resistance, improved tear resistance, improved resistance to fatigue and resistance to catastrophic failure not obtainable in amorphous gels.

L8 ANSWER 5 OF 77 USPATFULL (Continued)

L8 ANSWER 6 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:737959 CAPLUS
DOCUMENT NUMBER: 137:385169
TITLE: Amphiphilic Hydrogels Constructed by Poly(ethylene glycol) and Shape-Persistent Dendritic Fragments
AUTHOR(S): Gitsov, Ivan; Zhu, Chao
CORPORATE SOURCE: Michael M. Szwarc Polymer Research Institute and Department of Chemistry, College of Environmental Science and Forestry, State University of New York, Syracuse, NY, 13210, USA
SOURCE: Macromolecules (2002), 35(22), 8418-8427
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB This paper describes the synthesis of amphiphilic hydrogels with highly shape persistent cross-link junctions using **linear blocks**, such as poly(ethylene glycol), PEG, and perfectly branched (dendritic) macromols. The synthetic strategy is based on the reaction of PEG with isocyanate or epoxy end groups as the hydrophilic component and hydrophobic dendritic poly(benzyl ethers) with amino groups at the periphery. It is found that the efficiency of the crosslinking reaction depends on the nature of chem. reaction used and the stoichiometric ratio of the two building blocks. The swelling of the gels formed is affected by the relative PEG content and by the polarity of the medium and the temp., and it varies between 1.2 and 16.7 (by wt.). The influence of various factors on the degree of crystallinity and phase segregation is also discussed.
REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 77 USPATFULL
ACCESSION NUMBER: 2001:202207 USPATFULL
TITLE: End modified thermal responsive hydrogels
INVENTOR(S): Ron, Eyal S., Lexington, MA, United States
Bromberg, Lev, Swampscott, MA, United States
Temchenko, Marina, Swampscott, MA, United States
PATENT ASSIGNEE(S): Madash, LLC, Lexington, MA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 6316011 | B1 | 20011113 |
| APPLICATION INFO.: | US 1999-368440 | | 19990804 (9) |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | US 1998-95330P | 19980804 (60) |
| | US 1998-97741P | 19980824 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Jones, Dameron L.
NUMBER OF CLAIMS: 41
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 2168
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A pharmaceutic composition includes a pharmaceutically acceptable carrier, comprising a reverse thermally viscosifying polymer. The polymer includes a **linear block copolymer**, wherein at least one block comprises a poloxamer; and at least one block comprises a biocompatible polymer or oligomer, in an aqueous medium. The composition also includes an active agent which imparts a pharmaceutic or cosmetic effect. The composition viscosities in response to an environmental stimulus. The composition is suitable for administration of the pharmaceutical agent across dermal, otic, rectal, vaginal, ophthalmic, esophageal and nasal mucosal membranes.

L8 ANSWER 8 OF 77 USPATFULL
ACCESSION NUMBER: 2001:196635 USPATFULL
TITLE: Delivery of nucleic acid materials
INVENTOR(S): Schacht, Etienne H, Rijseveldstraat 99, B-8140, Staden, Belgium
Seymour, Leonard C W, The University of Birmingham, Clinical Research Block, The Medical School, Edgbaston, Birmingham B15 2TJ, United Kingdom
Ulbrich, Karel, Inst of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Heyrovsky Sq. 2, 16206, Prague 7, Czech Republic

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 6312727 | B1 | 20011106 |
| APPLICATION INFO.: | US 1999-306568 | | 19990506 (9) |

RELATED APPLN. INFO.: Continuation of Ser. No. WO 1997-GB2965, filed on 6 Nov 1997

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | GB 1996-23051 | 19961106 |

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: McKelvey, Terry
ASSISTANT EXAMINER: Sandals, William
LEGAL REPRESENTATIVE: Pillsbury Winthrop LLP
NUMBER OF CLAIMS: 52
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 2173
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Synthetic polymer-based carrier vehicles for delivery of nucleic acid material to target cells in biological systems are made by self-assembly of the nucleic acid with cationic polymer material so as to condense the nucleic acid and form a polyelectrolyte complex and reacting the complex with hydrophilic polymer material which bonds to the complex forming a hydrophilic coating that stabilizes the complex and provides an outer protective steric shield. The carrier vehicles are useful for gene therapy.

L8 ANSWER 9 OF 77 USPATFULL
ACCESSION NUMBER: 2001:8112 USPATFULL
TITLE: Agglomerated particles of water-swellable addition polymers, preparation thereof and use thereof
INVENTOR(S): Rubenacker, Martin, Altrip, Germany, Federal Republic of
Schneider, Reinhard, Fussgonheim, Germany, Federal Republic of
Nieberle, Jurgen, Wachenheim, Germany, Federal Republic of
Meyer, Harald, Wachenheim, Germany, Federal Republic of
Hartmann, Heinrich, Limburgerhof, Germany, Federal Republic of
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, Germany, Federal Republic of (non-U.S. corporation)

| | NUMBER | KIND | DATE | |
|---|---|---|---|---|
| PATENT INFORMATION: | US 6174946 | B1 | 20010116 | |
| | WO 9626222 | | 19960829 | |
| APPLICATION INFO.: | US 1997-894373 | | 19970822 | (8) |
| | WO 1996-EP577 | | 19960210 | |
| | | | 19970822 | PCT 371 date |
| | | | 19970822 | PCT 102(e) date |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | DE 1995-19506287 | 19950223 |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Buttner, David J.
LEGAL REPRESENTATIVE: Oblon, Spivak, McClelland, Maier & Neustadt, P.C.
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 798
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Agglomerated particles of water-swellable addition polymers, the agglomerated particles having an average particle diameter of from 20 to 5000 .mu.m and consisting of primary particles having an average particle diameter of from 0.1 to 15 .mu.m, being preparable by polymerization of water-soluble monomers in the presence of from 1' to 10% by weight of a regulator and at least 2000 ppm, each based on the monomers, of a crosslinking agent in the manner of a water-in-oil polymerization and subsequent azeotropic removal of water from the water-in-oil polymer emulsions, containing the primary particles, in the presence of agglomerating polyalkylene glycols which

(a) are obtainable by an addition reaction of C.sub.2 -C.sub.4 -alkylene oxides with alcohols, phenols, amines or carboxylic acids, and

(b) contain at least 2 polymerized alkylene oxide units,

L8 ANSWER 9 OF 77 USPATFULL (Continued)

and disintegrating into the primary particles on introduction into an aqueous medium, processes for preparing the agglomerated polymer particles and use of the agglomerated particles as thickeners for print pastes.

L8 ANSWER 10 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:116905 CAPLUS
DOCUMENT NUMBER: 132:171112
TITLE: End modified thermal responsive hydrogels
INVENTOR(S): Ron, Eyal S.; Bromberg, Lev; Temchenko, Marina
PATENT ASSIGNEE(S): Madash Llp, USA
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2000007603 | A2 | 20000217 | WO 1999-US17807 | 19990804 |
| WO 2000007603 | A3 | 20000323 | | |
| W: CA, JP | | | | |
| RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| EP 1109563 | A2 | 20010627 | EP 1999-943656 | 19990804 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| US 6316011 | B1 | 20011113 | US 1999-368440 | 19990804 |

PRIORITY APPLN. INFO.: US 1998-95330P P 19980804
US 1998-97741P P 19980824
WO 1999-US17807 W 19990804

AB A pharmaceutic compn. includes a pharmaceutically acceptable carrier, comprising a reverse thermally viscosifying polymer. The polymer includes a **linear block copolymer**, wherein at least one block comprises a poloxamer; and at least one block comprises a biocompatible polymer or oligomer, in an aq. medium. The compn. also includes an active agent which imparts a pharmaceutic or cosmetic effect. The compn. viscosifies in response to an environmental stimulus. The compn. is suitable for administration of the pharmaceutical agent across dermal, otic, rectal, vaginal, ophthalmic, esophageal and nasal mucosal membranes. E.g., a poloxamer was derivatized to obtain an acryloyl-terminated poloxamer and then this polymer was end-linked with poly(acrylic acid) by free radical polymn.

L8 ANSWER 11 OF 77 USPATFULL
ACCESSION NUMBER: 2000:156953 USPATFULL
TITLE: Hair styling compositions containing silicone microemulsions and cationic non-polymeric liquids
INVENTOR(S): Peffly, Marjorie Mossman, Cincinnati, OH, United States
Kuhlman, Dennis Eugene, Middletown, OH, United States
PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 6149898 | | 20001121 |
| APPLICATION INFO.: | US 1998-102039 | | 19980622 (9) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Page, Thurman K.
ASSISTANT EXAMINER: Seidleck, Brian K.
LEGAL REPRESENTATIVE: Winter, William J., Elandjian, Lucy
NUMBER OF CLAIMS: 36
EXEMPLARY CLAIM: 1
LINE COUNT: 1757
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed are hair styling compositions comprising from about 0.01% to about 20% of a non-silicone-containing hair styling polymer; from about 0.1% to about 20% of a liquid hydrophilic non-polymeric cationic compound having at least one quaternary ammonium moiety; from about 3% to about 99% of selected carriers; and an organopolysiloxane microemulsion that contains a dispersing surfactant and from about 0.01% to about 10% organopolysiloxane (by weight of the composition), wherein the organopolysiloxane is substantially free of amino groups in combination with hydroxyl groups and the microemulsion has an average particle size of less than about 80 nm. The composition provides good style retention, restyling benefits, and improved hair aesthetics, e.g. blacker/shinier hair, less sticky/stiff.

L8 ANSWER 12 OF 77 USPATFULL
ACCESSION NUMBER: 2000:127957 USPATFULL
TITLE: Superparamagnetic contrast media coated with starch and polyalkylene oxides
INVENTOR(S): Gunther, Wolfgang H. H., Wayne, PA, United States
Fujii, Dennis Kiyoshi, Wayne, PA, United States
Kellar, Kenneth Edmund, Wayne, PA, United States
Black, Christopher Douglass Valiant, Wayne, PA, United States
Desai, Vinay C., Wayne, PA, United States
Beeber, Marshal, Wayne, PA, United States
Wellons, Jennifer, Wayne, PA, United States
Fahlvik, Anne Kjersti, Oslo, Norway
N.ae butted.vestad, Anne, Oslo, Norway
PATENT ASSIGNEE(S): Nycomed Imaging AS, Oslo, Norway (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 6123920 | | 20000926 |
| APPLICATION INFO.: | US 1996-729836 | | 19961015 (8) |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | GB 1996-427 | 19960110 |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Hollinden, Gary E.
LEGAL REPRESENTATIVE: Bacon & Thomas
NUMBER OF CLAIMS: 42
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1362
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to MR contrast media containing composite nanoparticles, preferably comprising a superparamagnetic iron oxide core provided with a coating comprising an oxidatively cleaved starch coating optionally together with a functionalized polyalkyleneoxide which serves to prolong blood residence.

L8 ANSWER 13 OF 77 USPATFULL
ACCESSION NUMBER: 2000:120821 USPATFULL
TITLE: Elastic-crystal gel
INVENTOR(S): Chen, John Y., Pacifica, CA, United States
PATENT ASSIGNEE(S): Applied Elastomerics, Inc., South San Francisco, CA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 6117176 | | 20000912 |
| APPLICATION INFO.: | US 1997-863794 | | 19970527 (8) |

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-819675, filed on 17 Mar 1997, now patented, Pat. No. US 5884639 And a continuation-in-part of Ser. No. US 1996-719817, filed on 30 Sep 1996 And a continuation-in-part of Ser. No. US 1996-665343, filed on 17 Jun 1996 And a continuation-in-part of Ser. No. US 1996-612586, filed on 8 Mar 1996 which is a continuation-in-part of Ser. No. WO 1994-US4278, filed on 19 Apr 1994 And a continuation-in-part of Ser. No. WO 1994-US7314, filed on 27 Jun 1994 And a continuation-in-part of Ser. No. US 1994-288690, filed on 11 Aug 1994, now patented, Pat. No. US 5633286 And a continuation-in-part of Ser. No. US 1995-581188, filed on 29 Dec 1995 And a continuation-in-part of Ser. No. US 1995-581191, filed on 29 Dec 1995, now patented, Pat. No. US 5760117 And a continuation-in-part of Ser. No. US 1995-581125, filed on 29 Dec 1995 , said Ser. No. US 288690 , said Ser. No. WO US9407314 , said Ser. No. US 1993-152734, filed on 15 Nov 1993, now patented, Pat. No. US 5624294
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lilling, Herbert J.
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 50 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 1458
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel crystal gels and articles are formed from one or more block **copolymers** having at least one crystalline midblock and high levels of a plasticizer, said midblock segment having an amount of crystallinity sufficient to achieve improvements in one or more physical properties including improved crack propagation resistance, improved tear resistance, improved resistance to fatigue and resistance to catastrophic failure not obtainable in amorphous gels.

L8 ANSWER 14 OF 77 USPATFULL
ACCESSION NUMBER: 2000:9513 USPATFULL
TITLE: Segmented chelating polymers as imaging and therapeutic agents
INVENTOR(S): Butterfield, Dennis E., Rochester, NY, United States
Fujii, Dennis K., Downingtown, PA, United States
Ladd, David L., Wayne, PA, United States
Snow, Robert A., West Chester, PA, United States
Tan, Julia S., Rochester, NY, United States
Toner, John L., Downingtown, PA, United States
PATENT ASSIGNEE(S): Sterling Winthrop Inc., New York, NY, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 6017522 | | 20000125 |
| APPLICATION INFO.: | US 1997-845421 | | 19970425 (8) |

RELATED APPLN. INFO.: Division of Ser. No. US 1994-221714, filed on 31 Mar 1994, now patented, Pat. No. US 5730968
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Webman, Edward J.
LEGAL REPRESENTATIVE: Fish & Richardson P.C.
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
LINE COUNT: 1278
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A composition suitable for use in diagnostic imaging or as a cell killing agent comprising a chelating residue linked via an amide linkage to a poly(alkylene oxide) moiety, said compisition having a molecular weight of at least 4,500; ##STR1## wherein: Z is a chelating residue;

Q is a divalent poly(alkylene oxidylene) moiety having a carbon terminus at R and at L;

L represents an amide linkage;

E.sup.(b) is one or more counterions each having a charge of b;

b is an integer from 1, 2 and 3;

n is an integer selected from the group 1, 2, 3 and 4;

w is zero or an integer from 1 to 5;

M.sup.(+a) is a cation, having a charge of +a;

a is an integer from 1 to 4;

r is 0 or an integer from 1 to 3, provided that when r is 2-3, each M.sup.(+a) can be the same or different cation;

d is the total charge on the chelating residue and is an integer from 0 to 10;

d+.SIGMA.(b.multidot.w)+.SIGMA.(a.multidot.r)=0; and

R is a capping moiety chosen from the group consisting of hydrogen,

L8 ANSWER 14 OF 77 USPATFULL (Continued)
hydroxyl, C.sub.1 -C.sub.4 alkyl, aryl containing 6 to 24 carbon atoms, C.sub.2 -C.sub.5 alkanoyloxyl and C.sub.1 -C.sub.4 alkoxy, or R is an immunoreactive group or cytotoxic drug linked to Q by a chemical bond or
a linking group.

L8 ANSWER 15 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:386330 CAPLUS
DOCUMENT NUMBER: 133:121052
TITLE: Structurally conditioned microhardness of interpenetrating polymer networks
AUTHOR(S): Pryvalko, E. G.
CORPORATE SOURCE: Inst. Khim. Vysokomol. Spoluk, Kiev, Ukraine
SOURCE: Dopovidi Natsional'noi Akademii Nauk Ukraini (2000), (4), 157-159
CODEN: DNAUFL; ISSN: 1025-6415
PUBLISHER: Prezidiya Natsional'noi Akademii Nauk Ukraini
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
AB Linear correlation between microhardness and glass transition temp. of interpenetrating polymer networks consisting of **linear block** polyester polyurethane and either bisphenol A dicyanate trimer homopolymer, bisphenol A dicyanate trimer **copolymer** with epoxy resin, or poly(tetramethylene glycol) **copolymer** with glycerol-TDI adduct was detd.

L8 ANSWER 16 OF 77 USPATFULL
ACCESSION NUMBER: 1999:170238 USPATFULL
TITLE: Nanoparticles and microparticles of non-linear hydrophilic-hydrophobic multiblock **copolymers**
INVENTOR(S): Domb, Abraham J., Efrat, Israel
Gref, Ruxandra, Nancy, France
Minamitake, Yoshiharu, Gumma, Japan
Peracchia, Maria Teresa, Parma, Italy
Langer, Robert S., Newton, MA, United States
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, Cambridge, MA, United States (U.S. corporation)

| | NUMBER | KIND | DATE | |
|---|---|---|---|---|
| PATENT INFORMATION: | US 6007845 | | 19991228 | |
| | WO 9503356 | | 19950202 | |
| APPLICATION INFO.: | US 1996-582993 | | 19960325 | (8) |
| | WO 1994-US8287 | | 19940722 | |
| | | | 19960122 | PCT 371 date |
| | | | 19960122 | PCT 102(e) date |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Smith, Lynette R. F.
ASSISTANT EXAMINER: Lee, Datquan
LEGAL REPRESENTATIVE: Arnall Golden & Gregory, LLP
NUMBER OF CLAIMS: 38
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 1368
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Particles are provided that are not rapidly cleared from the blood stream by the macrophages of the reticuloendothelial system, and that can be modified to achieve variable release rates or to target specific cells or organs. The particles have a core of a multiblock **copolymer** formed by covalently linking a multifunctional compound with one or more hydrophobic polymers and one or more hydrophilic polymers, and contain a biologically active material. The terminal hydroxyl group of the poly(alkylene glycol) can be used to covalently attach onto the surface of the particles biologically active molecules, including antibodies targeted to specific cells or organs, or
molecules affecting the charge, lipophilicity or hydrophilicity of the particle. The surface of the particle can also be modified by attaching biodegradable polymers of the same structure as those forming the core of the particles. The typical size of the particles is between 180 nm and 10,000 nm, preferably between 180 nm and 240 nm, although microparticles can also be formed as described herein. The particles can
include magnetic particles or radiopaque materials for diagnostic imaging, biologically active molecules to be delivered to a site, or compounds for targeting the particles. The particles have a prolonged half-life in the blood compared to particles not containing poly(alkylene glycol) moieties on the surface.

L8 ANSWER 17 OF 77 USPATFULL
ACCESSION NUMBER: 1999:88767 USPATFULL
TITLE: Therapeutic and diagnostic imaging compositions and methods
INVENTOR(S): Snow, Robert A., West Chester, PA, United States
Ladd, David L., Wayne, PA, United States
Toner, John L., Downingtown, PA, United States
PATENT ASSIGNEE(S): Sterling Winthrop Inc., New York, NY, United States (U.S. corporation)

| | NUMBER | KIND | DATE | |
|---|---|---|---|---|
| PATENT INFORMATION: | US 5932188 | | 19990803 | |
| APPLICATION INFO.: | US 1997-963125 | | 19971028 | (8) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1995-493523, filed on 22 Jun 1995, now abandoned which is a continuation of Ser. No. US 1994-352682, filed on 30 Nov 1994, now abandoned which is a continuation of Ser. No. US 1992-960745, filed on 14 Oct 1992, now abandoned | | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Dees, Jose' G.
ASSISTANT EXAMINER: Hartley, Michael G.
LEGAL REPRESENTATIVE: Fish & Richardson P.C.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
LINE COUNT: 1005
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention provides therapeutic and diagnostic imaging compositions and methods featuring a polymer comprising units containing a poly(alkylene oxide) moiety linked to the residue of a chelating agent, said polymer having a cytotoxic agent associated therewith.

L8 ANSWER 18 OF 77 USPATFULL
ACCESSION NUMBER: 1999:75172 USPATFULL
TITLE: Liquid enzyme compositions containing aromatic acid derivatives and methods of use
INVENTOR(S): Asgharian, Bahram, Arlington, TX, United States
Quintana, Ronald P., Arlington, TX, United States
Hong, Bor-Shyue, Arlington, TX, United States
PATENT ASSIGNEE(S): Alcon Laboratories, Inc., Fort Worth, TX, United States
(U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5919313 | | 19990706 |
| APPLICATION INFO.: | US 1997-866629 | | 19970530 (8) |

RELATED APPLN. INFO.: Division of Ser. No. US 1995-515732, filed on 18 Aug 1995, now patented, Pat. No. US 5672213
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Snay, Jeffrey
LEGAL REPRESENTATIVE: Mayo, Michael C,
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
LINE COUNT: 800
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compositions containing a stable, liquid, ophthalmically acceptable enzyme and methods involving the combined use of these compositions with
a polymeric antimicrobial agent are disclosed for the simultaneous cleaning and disinfecting of contact lens. Methods for a daily use regimen are also disclosed.

L8 ANSWER 19 OF 77 USPATFULL
ACCESSION NUMBER: 1999:35789 USPATFULL
TITLE: Crystal gels with improved properties
INVENTOR(S): Chen, John Y., Pacifica, CA, United States
PATENT ASSIGNEE(S): Applied Elastomerics, Inc., South San Francisco, CA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5884639 | | 19990323 |
| APPLICATION INFO.: | US 1997-819675 | | 19970317 (8) |

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-719817, filed on 30 Sep 1996 And a continuation-in-part of Ser. No. US 1996-665343, filed on 17 Jun 1996 And a continuation-in-part of Ser. No. US 1996-612586, filed on 8 Mar 1996
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lilling, Herbert J.
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
LINE COUNT: 1138
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel crystal gels and articles are formed from one or more of a linear SEBS or radial (SEB).sub.n triblock **copolymers** having a selected crystalline midblock segment and high levels of a plasticizer, said midblock segment having an amount of crystallinity in the EB **copolymer** sufficient to achieve improvements in one or more physical properties including improved crack propagation resistance, improved tear resistance, improved resistance to fatigue and resistance to catastrophic failure not obtainable in amorphous SEBS gels.

L8 ANSWER 20 OF 77 USPATFULL
ACCESSION NUMBER: 1999:15581 USPATFULL
TITLE: Silicone **copolymer** modified release tapes
INVENTOR(S): Seth, Jayshree, St. Paul, MN, United States
Bany, Stephen W., St. Paul, MN, United States
Kinning, David J., St. Paul, MN, United States
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., St. Paul, MN, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5866222 | | 19990202 |
| APPLICATION INFO.: | US 1997-896708 | | 19970718 (8) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Pezzuto, Helen L.
LEGAL REPRESENTATIVE: Griswold, Gary L., Sprague, Robert W., Bond, William J.
NUMBER OF CLAIMS: 48
EXEMPLARY CLAIM: 1
LINE COUNT: 1082
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB There is provided a block, segmented or graft **copolymer** having polyorganosiloxane segments and self-associating hard segments, which **copolymer** is capable of forming a solid, generally non-tacky release coating without the requirement of curing. The release coating comprises the polyorganosiloxane **copolymer** admixed with an MQ resin wherein the amount of MQ resin is generally between 1 and 30 weight percent of the polyorganosiloxane content preferably 1 to 20 weight percent. The MQ resin modifies the **copolymer** release material to have a higher release than the **copolymer** itself, generally at least 10 percent and preferable at least 20 percent up to 50 percent or higher with the readhesion values decreasing by 50 percent
or less, preferably 40 percent or less.

L8 ANSWER 21 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:450449 CAPLUS
DOCUMENT NUMBER: 131:243851
TITLE: MALDI-TOF in the Characterizations of Dendritic-**Linear Block Copolymers** and Stars
AUTHOR(S): Yu, Dong; Vladimirov, Nikolay; Frechet, Jean M. J.
CORPORATE SOURCE: Department of Chemistry, University of California, Berkeley, CA, 94720-1460, USA
SOURCE: Macromolecules (1999), 32(16), 5186-5192
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Matrix-assisted laser desorption/ionization time-of-flight (MALDI-TOF) mass spectrometry was utilized to study simple poly(ethylene glycol)s (PEG) and a series of amphiphilic **copolymers** prepd. from PEG and dendritic mols. For the amphiphilic **copolymers** with branched dendritic structures, MALDI-TOF spectrometry affords more accurate mol. wt. data than the conventional GPC. For mass lower than 10 000, the mol. wt. distribution of the polymer is well-resolved into individual peaks. Using MALDI-TOF in the linear mode, **copolymers** with mol. masses of up to 43 000 Da were analyzed. For various dendrons attached to the same PEG, a good correlation was obsd. between calcd. and measured data for the expected incremental increase as a function of dendrimer generation. End-group anal. using MALDI-TOF mass spectrometry proved very useful for the anal. of polymers with relatively low mol. wts. The exptl.
results agree well with the calcd. masses of selected oligomers. Such end-group anal. can differentiate between the AB dendritic-linear diblocks, ABA triblocks, and linear PEG. These analyses support our earlier finding that the Williamson ether synthesis utilized in the PEG-dendron coupling reaction indeed converts all of the PEG to the desired block **copolymer** products.
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 22 OF 77 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1999:307161 BIOSIS
DOCUMENT NUMBER: PREV199900307161
TITLE: Biodegradable recombinant human erythropoietin loaded microspheres prepared from linear and star-branched block **copolymers**: Influence of encapsulation technique and polymer composition on particle characteristics.
AUTHOR(S): Pistel, K. F.; Bittner, B.; Koll, H.; Winter, G.; Kissel, T. (1)
CORPORATE SOURCE: (1) Department of Pharmaceutics and Biopharmacy, Philipps-University, Marburg Germany
SOURCE: Journal of Controlled Release, (June 2, 1999) Vol. 59, No. 3, pp. 309-325.
ISSN: 0168-3659.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

AB Recombinant human erythropoietin (EPO) and fluorescein isothiocyanate labeled dextran (FITC-dextran) loaded microspheres were prepared by a modified W/O/W double-emulsion technique. Biodegradable linear ABA block **copolymers** consisting of poly(L-lactide-co-glycolide) A blocks attached to central poly(ethyleneoxide) (PEO) B blocks and star-branched AB block **copolymers** containing A blocks of poly(L-lactide) or poly(L-lactide-co-glycolide) and star-branched poly(ethyleneoxide) B blocks were investigated for their potential as sustained release drug delivery systems. Microsphere characteristics were strongly influenced by the polymer composition. In the case of the **linear block copolymers**, a reduced lactic acid content in a **linear block copolymer** yielded smaller particles, a lower encapsulation efficiency, and a higher initial drug release both in the case of EPO and FITC-dextran. The investigation of the effects of several manufacturing parameters on microsphere formation showed that the process temperature plays an important role. Microsphere formation in a +1degreeC environment resulted in higher drug loadings without increasing the amount of residual dichloromethane inside the particles. Other parameters such as the homogenization of the primary W/O emulsion and of the W/O/W double-emulsion have less impact on microsphere characteristics. Branched block **copolymers** containing star-shaped PEO also showed potential for the preparation of drug loaded microspheres. A certain amount of glycolic acid in the **copolymer** was necessary for the successful preparation of non-aggregating microspheres at room temperature. Again, the processing temperature strongly affected particle characteristics. Microsphere preparation at +1degreeC allows the formation of microspheres from a polymer not containing glycolic acid, a result which could not be achieved at room temperature. Moreover, compared to microsphere formation at room temperature, the effective FITC-dextran loading was increased. Concerning the EPO loaded microspheres, the amount of EPO aggregated was comparable to that using the linear ABA polymers. A continuous release of the protein from these star-shaped polymers could not be achieved. In conclusion, apart from microsphere preparation in a +1degreeC environment the choice of the polymer represents the main factor for a successful entrapment of proteins into biodegradable microspheres.

L8 ANSWER 22 OF 77 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. (Continued)

L8 ANSWER 23 OF 77 USPATFULL
ACCESSION NUMBER: 1998:122053 USPATFULL
TITLE: MR imaging compositions and methods
INVENTOR(S): Snow, Robert A., West Chester, PA, United States
Ladd, David L., Wayne, PA, United States
Toner, John L., Downingtown, PA, United States
PATENT ASSIGNEE(S): Nycomed Imaging AS, Norway (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5817292 | | 19981006 |
| APPLICATION INFO.: | US 1992-960746 | | 19921014 (7) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Raymond, Richard L.
LEGAL REPRESENTATIVE: Fish & Richardson P.C.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 966
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides compositions useful in MR imaging comprising a polymer comprising units comprising the residue of a chelating agent linked to a poly(alkylene oxide) moiety, the polymer having a paramagetic metal ion associated therewith.

L8 ANSWER 24 OF 77 USPATFULL
ACCESSION NUMBER: 1998:82820 USPATFULL
TITLE: Dispersants and dispersant viscosity index improvers from selectively hydrogenated polymers
INVENTOR(S): Brandes, Ellen Bernice, Princeton, NJ, United States
Liu, Wan-Li, Belle Mead, NJ, United States
Loveless, Frederick Charles, Princeton, NJ, United States
PATENT ASSIGNEE(S): Mobil Oil Corporation, Fairfax, VA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5780540 | | 19980714 |
| APPLICATION INFO.: | US 1996-734982 | | 19961022 (8) |

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-488046, filed on 7 Jun 1995, now patented, Pat. No. US 5633415 which is a continuation-in-part of Ser. No. US 1995-382814, filed on 3 Feb 1995, now patented, Pat. No. US 5545783 which is a division of Ser. No. US 1994-179051, filed on 7 Jan 1994, now patented, Pat. No. US 5387730 which is a division of Ser. No. US 1992-992341, filed on 17 Dec 1992, now patented, Pat. No. US 5288937 which is a continuation of Ser. No. US 1992-907959, filed on 6 Aug 1992, now patented, Pat. No. US 5210359 which is a division of Ser. No. US 1990-466135, filed on 16 Jan 1990, now patented, Pat. No. US 5149895
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lipman, Bernard
LEGAL REPRESENTATIVE: Cuomo, Lori F., Santini, Dennis P.
NUMBER OF CLAIMS: 57
EXEMPLARY CLAIM: 1
LINE COUNT: 2734
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides dispersants and dispersant viscosity index improvers which include polymers of conjugated dienes which have been hydrogenated and functionalized. The dispersant substances include compositions including a **copolymer** of two different conjugated dienes, a **copolymer** of a p-alkylstyrene and a conjugated diene, or a homopolymer of a conjugated diene. The polymers are selectively hydrogenated to produce polymers which have highly controlled amounts of unsaturation, permitting highly selective functionalization. Also provided are lubricant fluids, such as mineral and synthetic oils, which have been modified in their dispersancy and/or viscometric properties by means of the dispersant substances of the invention. Also provided are methods of modifying the dispersancy and/or viscometric properties of lubricating fluids such as mineral and synthetic lubricating oils. The dispersant substances may also include a carrier fluid to provide dispersant concentrates.

L8 ANSWER 25 OF 77 USPATFULL
ACCESSION NUMBER: 1998:51133 USPATFULL
TITLE: Anti-icing fluids
INVENTOR(S): Lemma, Solomon, Broadview Heights, OH, United States
PATENT ASSIGNEE(S): The B.F. Goodrich Company, Richfield, OH, United States
(U.S. corporation)

| | NUMBER | KIND | DATE | |
|---|---|---|---|---|
| PATENT INFORMATION: | US 5750047 | | 19980512 | |
| APPLICATION INFO.: | US 1997-815650 | | 19970313 | (8) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Green, Anthony
LEGAL REPRESENTATIVE: Moxon, II, George W.
NUMBER OF CLAIMS: 33
EXEMPLARY CLAIM: 1
LINE COUNT: 1060
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A composition for use as a de-icing fluid comprising a glycol based squeous solution thickened with about 0.01 to about 5.0% by weight of a cross-linked hydrophobically modified **copolymer** of an acrylic acid which has a Brookfield mucilage viscosity of at least 25,000 cP at 0.5% by weight polymer dosage, a holdover time of at least 60 minutes, a shear thinning index of at least 20, and a shear loss of less than 15% and acceptable aerodynamic performance.

L8 ANSWER 26 OF 77 USPATFULL
ACCESSION NUMBER: 1998:30683 USPATFULL
TITLE: Segmented chelating polymers as imaging and therapeutic agents
INVENTOR(S): Butterfield, Dennis E., Rochester, NY, United States
Fujii, Dennis K., Downingtown, PA, United States
Ladd, David L., Wayne, PA, United States
Snow, Robert A., Chester, PA, United States
Tan, Julia S., Rochester, NY, United States
Toner, John L., Downingtown, PA, United States
PATENT ASSIGNEE(S): Sterling Winthrop Inc., New York, NY, United States
(U.S. corporation)

| | NUMBER | KIND | DATE | |
|---|---|---|---|---|
| PATENT INFORMATION: | US 5730968 | | 19980324 | |
| APPLICATION INFO.: | US 1994-221714 | | 19940331 | (8) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Webman, Edward J.
LEGAL REPRESENTATIVE: Fish & Richardson P.C.
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
LINE COUNT: 1316
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A composition suitable for use in diagnostic imaging or as a cell killing agent comprising a chelating residue linked via an amide linkage to a poly(alkylene oxide) moiety, said composition having a molecular weight of at least 4,500; ##STR1## wherein: Z is a chelating residue;

Q is a divalent poly(alkylene oxidylene) moiety having a carbon terminus at R and at L;

L represents an amide linkage;

E.sup.(b) is one or more counterions each having a charge of b;

b is an integer from 1, 2 and 3;

n is an integer selected from the group 1, 2, 3 and 4;

w is zero or an integer from 1 to 5;

M.sup.(+a) is a cation, having a charge of +a;

a is an integer from 1 to 4;

r is 0 or an integer from 1 to 3, provided that when r is 2-3, each M.sup.(+a) can be the same or different cation;

d is the total charge on the chelating residue and is an integer from 0 to 10;

d+.SIGMA.(b.multidot.w)+.SIGMA.(a.multidot.r)=0; and

L8 ANSWER 26 OF 77 USPATFULL (Continued)

R is a capping moiety chosen from the group consisting of hydrogen, hydroxyl, C.sub.1 -C.sub.4 alkyl, aryl containing 6 to 24 carbon atoms, C.sub.2 -C.sub.5 alkanoyloxyl and C.sub.1 -C.sub.4 alkoxy, or R is an immunoreactive group or cytotoxic drug linked to Q by a chemical bond or a linking group.

L8 ANSWER 27 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:546648 CAPLUS
DOCUMENT NUMBER: 129:245858
TITLE: Solution behavior of novel linear-dendritic diblock **copolymers**
AUTHOR(S): Iyer, Jyostna; Fleming, Kala; Hammond, Paula T.
CORPORATE SOURCE: Dep. Chem. Eng., MIT, Cambridge, MA, 02139, USA
SOURCE: Polymeric Materials Science and Engineering (1998), 79, 451-452
CODEN: PMSEDG; ISSN: 0743-0515
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two series of hybrid linear-dendritic diblock **copolymers** were synthesized with the **linear block** being poly(ethylene oxide) and the dendritic block being poly(amidoamine) PAMAM. The aq. soln. behavior of the diblock **copolymers** was studied using intrinsic viscosity, gel permeation chromatog., and dynamic light scattering. The effect was detd. of the length of the poly(ethylene oxide) tail and the end group functionality of the dendritic block on the intrinsic viscosity of the **copolymer**.
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 28 OF 77 USPATFULL
ACCESSION NUMBER: 97:88606 USPATFULL
TITLE: Liquid enzyme compositions containing aromatic acid derivatives
INVENTOR(S): Asgharian, Bahram, Arlington, TX, United States
Quintana, Ronald P., Arlington, TX, United States
Hong, Bor-Shyue, Arlington, TX, United States
PATENT ASSIGNEE(S): Alcon Laboratories, Inc., Fort Worth, TX, United States
(U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5672213 | | 19970930 |
| APPLICATION INFO.: | US 1995-515732 | | 19950818 (8) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Snay, Jeffrey
LEGAL REPRESENTATIVE: Mayo, Michael C.
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
LINE COUNT: 740
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compositions containing a stable, liquid, ophthalmically acceptable enzyme and methods involving the combined use of these compositions with
a polymeric antimicrobial agent are disclosed for the simultaneous cleaning and disinfecting of contact lens. Methods for a daily use regimen are also disclosed.

L8 ANSWER 29 OF 77 USPATFULL
ACCESSION NUMBER: 97:86576 USPATFULL
TITLE: Machine dishwashing method employing a metallo catalyst
and enzymatic source of hydrogen peroxide
INVENTOR(S): Moens, Marnix Karel Christiane, Wielsbeke, Belgium
PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5670468 | | 19970923 |
| | WO 9423637 | | 19941027 |
| APPLICATION INFO.: | US 1995-537652 | | 19951010 (8) |
| | WO 1994-US3169 | | 19940323 |
| | | | 19951010 PCT 371 date |
| | | | 19951010 PCT 102(e) date |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | EP 1993-870066 | 19930409 |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lieberman, Paul
ASSISTANT EXAMINER: Dvorheck, Caroline L.
LEGAL REPRESENTATIVE: Zerby, Kim William, Reed, T. David, Rasser, J. C.
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
LINE COUNT: 1310
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to a dishwashing, especially machine dishwashing, method wherein the articles to be washed are treated with an effective amount of a detergent composition comprising: A. a metallo catalyst selected from a) metallo porphin and water-soluble or water dispersable derivatives thereof; b) metallo porphyring and water-soluble
or water-dispersable derivatives thereof; c) metallo phthalocyanine and water-soluble or water-dispersable derivatives thereof; and B. an enzymatic system capable of generating hydrogen peroxide.

L8 ANSWER 30 OF 77 USPATFULL
ACCESSION NUMBER: 97:75808 USPATFULL
TITLE: Cosmetic formulations
INVENTOR(S): Tsubaki, Suguru, Kanagawa-ken, Japan
Noda, Isao, Kanagawa-ken, Japan
PATENT ASSIGNEE(S): Nipon Unicar Company Limited, Tokyo, Japan (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5660819 | | 19970826 |
| APPLICATION INFO.: | US 1995-479475 | | 19950607 (8) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1991-812570, filed on 20 Dec 1991, now patented, Pat. No. US 5472686 | | |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | JP 1990-415431 | 19901228 |
| | JP 1991-65228 | 19910307 |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Dodson, Shelley A.
LEGAL REPRESENTATIVE: Scully, Scott, Murphy & Presser
NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1
LINE COUNT: 674
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Conventionally, polyether pendant dimethyl polysiloxane and linear polyether-polysiloxane-polyether block **copolymer** have been frequently proposed and dominantly used in cosmetic formulations. In this invention, non-hydrolyzing block **copolymers** comprising a linear polysiloxane-polyoxyalkylene block as a repeating unit are used as a main component of cosmetic formulations used in skin care products and hair care products.

L8 ANSWER 31 OF 77 USPATFULL
ACCESSION NUMBER: 97:54014 USPATFULL
TITLE: Water-shrinkable film
INVENTOR(S): Larson, Jennifer Cappel, Fond du Lac, WI, United States
Soerens, Dave Allen, Neenah, WI, United States
PATENT ASSIGNEE(S): Kimberly-Clark Worldwide Inc., Neenah, WI, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5641562 | | 19970624 |
| APPLICATION INFO.: | US 1994-367652 | | 19941230 (8) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Bell, James J.
LEGAL REPRESENTATIVE: Schenian, John R.
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 799
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed is a water-shrinkable film prepared from a composition comprising an elastomeric polymer and a water-dispersible polymer. Also disclosed is a disposable absorbent product, intended for the absorption
of body fluids, including the film. The film is useful in imparting improved water-shrinkability properties to the disposable absorbent product.

L8 ANSWER 32 OF 77 USPATFULL
ACCESSION NUMBER: 97:33486 USPATFULL
TITLE: Preparing pulverulent hair bleach of peroxygen oxidizer and polyoxyethylene/polyoxypropylene **copolymer**
INVENTOR(S): Tricaud, Caroline, Cormeilles En Parisis, France
Millequant, Jean-Marie, Saint-Maur, France
Sebag, Henri, Paris, France
PATENT ASSIGNEE(S): L'Oreal, Paris, France (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5622691 | | 19970422 |
| APPLICATION INFO.: | US 1996-706362 | | 19960830 (8) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1994-361659, filed on 22 Dec 1994, now abandoned | | |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | FR 1994-366 | 19940114 |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Sellers, Robert E.
LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
LINE COUNT: 358
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Cosmetic compositions for bleaching hair comprising at least one oxidizing agent selected from peroxygen compounds and at least one block and/or random linear polyoxyethylene/polyoxypropylene **copolymer**, the **copolymer** being anhydrous and, at room temperature, further being both liquid and soluble in water, and the composition being pulverulent and anhydrous. Bleaching powders that are fine, anhydrous, free-flowing, homogeneous, non-dusty, are perfectly dispersible in hydrogen peroxide and have improved cosmetic properties.

L8 ANSWER 33 OF 77 USPATFULL
ACCESSION NUMBER: 97:22469 USPATFULL
TITLE: Pulverulent hair bleach of peroxygen oxidizer and polyoxyethylene/polyoxypropylene **copolymer**
INVENTOR(S): Tricaud, Caroline, Cormeilles En Parisis, France
Millequant, Jean-Marie, Saint-Maur, France
Sebag, Henri, Paris, France
PATENT ASSIGNEE(S): L'Oreal, Paris, France (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5612022 | | 19970318 |
| APPLICATION INFO.: | US 1996-683104 | | 19960716 (8) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1995-475649, filed on 7 Jun 1995, now abandoned which is a division of Ser. No. US 1994-361659, filed on 22 Dec 1994, now abandoned | | |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | FR 1994-366 | 19940114 |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Sellers, Robert E.
LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
LINE COUNT: 319
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A process for preparing a pulverulent, anhydrous hair bleaching composition comprises mixing in a non-solvent medium at room temperature a dry bleaching powder of a peroxygen compound oxidizing agent and at least one anhydrous block and/or random polyoxyethylene/polyoxypropylene **copolymer** which is liquid and water-soluble at room temperature.

L8 ANSWER 34 OF 77 USPATFULL
ACCESSION NUMBER: 97:3510 USPATFULL
TITLE: Medical compositions
INVENTOR(S): Bogdanov, Alexei A., Newton, MA, United States
Brady, Thomas J., Winchester, MA, United States
PATENT ASSIGNEE(S): The General Hospital Corporation, Boston, MA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5593658 | | 19970114 |
| APPLICATION INFO.: | US 1994-250635 | | 19940527 (8) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1992-940590, filed on 4 Sep 1992, now abandoned | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Hollinden, Gary E.
LEGAL REPRESENTATIVE: Fish & Richardson P.C.
NUMBER OF CLAIMS: 32
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 1331
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A biocompatible medical composition including a polymeric carrier, a protective chain linked to the polymeric carrier, and a reporter group linked to the carrier or to the carrier and the protective chain. The invention also relates to a method of treating a disease in a patient by administering to the patient a therapeutically effective amount of the composition, and may include scanning the patient using an imaging technique which can detect the reporter group to obtain a visible image of the distribution of the composition.

L8 ANSWER 35 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:404878 CAPLUS
DOCUMENT NUMBER: 125:62909
TITLE: Preparation and properties of linear and **linear block** polyoxyalkylenes as synthetic lubricating oils
INVENTOR(S): Wei, Liwen
PATENT ASSIGNEE(S): Mobil Oil Corporation, USA
SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9613477 | A1 | 19960509 | WO 1995-US12684 | 19951003 |
| W: AU, CA, CN, JP, KR | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| US 5648557 | A | 19970715 | US 1994-329913 | 19941027 |
| CA 2203019 | AA | 19960509 | CA 1995-2203019 | 19951003 |
| AU 9537622 | A1 | 19960523 | AU 1995-37622 | 19951003 |
| AU 697555 | B2 | 19981008 | | |
| EP 788470 | A1 | 19970813 | EP 1995-935706 | 19951003 |
| EP 788470 | B1 | 20020220 | | |
| R: AT, BE, DE, ES, FR, GB, GR, IT, NL | | | | |
| CN 1161684 | A | 19971008 | CN 1995-195845 | 19951003 |
| CN 1101412 | B | 20030212 | | |
| JP 10508334 | T2 | 19980818 | JP 1995-514591 | 19951003 |
| AT 213490 | E | 20020315 | AT 1995-935706 | 19951003 |
| TW 418250 | B | 20010111 | TW 1995-84111447 | 19951030 |
| US 5741946 | A | 19980421 | US 1996-733056 | 19961016 |

PRIORITY APPLN. INFO.: US 1994-329913 A 19941027
WO 1995-US12684 W 19951003
AB Essentially linear synthetic (random or block) polyoxyalkylene lubricating oils, contg. <2 wt.% cyclic oligomeric byproducts and with mol. wt. distribution (Mw/Mn) of 1-2, are prepd. by polymn. or **copolymn.** in a homogeneous liq. phase in the presence of heteropoly acid catalysts. The monomers have the structures I and II [n = 1-8; R1-6 (which can be the same or different) are H, C1-20-alkyl, aryl, arylalkyl, and alkoxyalkyl]. The heteropoly acid catalysts are of general formula HxMyOz (M is selected from Group IB, IIB, IVA, IVB, VA, VB, VIA, and VIB elements; x = 1-7, yr .gtoreq.1, and z = 1-60), optionally contg. up to 30 mol water of hydration. Alcs., acyl-contg. compds., and alkalies can be used as end-caps to terminate polymn. or modify the properties of the polymer produced. The block **copolymers** have a high viscosity index (180-400), mol. wt. 250-10,000, and are compatible with mineral oil and synthetic hydrocarbon lubricants. Preferred co-monomers are THF, C2-20-monoepoxides, and oxetane; a preferred heteropoly acid is heteropolytungstic acid (H3PW12O40.10H2O).

L8 ANSWER 36 OF 77 USPATFULL
ACCESSION NUMBER: 96:114000 USPATFULL
TITLE: Chelating polymers
INVENTOR(S): Snow, Robert A., West Chester, PA, United States
Ladd, David L., Wayne, PA, United States
Toner, John L., Downingtown, PA, United States
PATENT ASSIGNEE(S): Sterling Winthrop, New York, NY, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5583206 | | 19961210 |
| APPLICATION INFO.: | US 1994-348197 | | 19941128 (8) |
| DISCLAIMER DATE: | 20141130 | | |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1992-961146, filed on 14 Oct 1992, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Kight, III, John | | |
| ASSISTANT EXAMINER: | Chapman, Lara E. | | |
| LEGAL REPRESENTATIVE: | Fish & Richardson PC | | |
| NUMBER OF CLAIMS: | 5 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 756 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB In accordance with this invention, there is provided a polymer comprising units comprising the residue of a chelating agent linked to a poly(alkylene oxide) moiety, and a method for the preparation thereof. The polymer is particularly useful in therapeutic and diagnostic imaging compositions and as an antistatic agent.

L8 ANSWER 37 OF 77 USPATFULL
ACCESSION NUMBER: 96:108699 USPATFULL
TITLE: Nanoparticles and microparticles of non-linear hydrophilic-hydrophobic multiblock **copolymers**
INVENTOR(S): Domb, Abraham J., Efrat, Israel
Gref, Ruxandra, Nancy, France
Minamitake, Yoshiharu, Ota, Japan
Peracchia, Maria T., Parma, Italy
Langer, Robert S., Newton, MA, United States
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, Cambridge, MA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5578325 | | 19961126 |
| APPLICATION INFO.: | US 1994-265440 | | 19940624 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1994-210677, filed on 18 Mar 1994 which is a continuation-in-part of Ser. No. US 1993-96370, filed on 23 Jul 1993 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Azpuru, Carlos | | |
| LEGAL REPRESENTATIVE: | Arnall Golden & Gregory | | |
| NUMBER OF CLAIMS: | 32 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 12 Drawing Figure(s); 7 Drawing Page(s) | | |
| LINE COUNT: | 1284 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Injectable particles are provided that are not rapidly cleared from the blood stream by the macrophages of the reticuloendothelial system, and that can be modified as necessary to achieve variable release rates or to target specific cells or organs as desired. The injectable particles can include magnetic particles or radiopaque materials for diagnostic imaging, biologically active molecules to be delivered to a site, or compounds for targeting the particles. Biodistribution experiments indicate that the injectable particles have a prolonged half-life in the blood compared to particles not containing poly(alkylene glycol) moieties on the surface.

L8 ANSWER 38 OF 77 USPATFULL
ACCESSION NUMBER: 96:24704 USPATFULL
TITLE: Plasticware-compatible rinse aid
INVENTOR(S): Man, Victor F., Minneapolis, MN, United States
PATENT ASSIGNEE(S): Ecolab Inc., St. Paul, MN, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5501815 | | 19960326 |
| APPLICATION INFO.: | US 1994-312460 | | 19940926 (8) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Gibson, Sharon | | |
| ASSISTANT EXAMINER: | Hailey, Patricia L. | | |
| LEGAL REPRESENTATIVE: | Merchant, Gould, Smith, Edell, Welter & Schmidt | | |
| NUMBER OF CLAIMS: | 20 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 1015 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A plasticware-compatible low-foaming rinse aid and method for using such rinse-aid to effectuate sheeting of aqueous rinse liquid from solid surface. The rinse aid comprises alkyl polyglycoside (APG) and reverse, polyoxyethylene-containing polyoxyalkylene block **copolymer**. The aqueous rinse solution obtained by diluting the rinse aid with water is compatible with thermoplastics such as polycarbonate and polysulfone.

L8 ANSWER 39 OF 77 USPATFULL
ACCESSION NUMBER: 96:14839 USPATFULL
TITLE: Polyether silicone surfactants for the manufacture of urethane foams
INVENTOR(S): Stanga, Michael A., Midland, MI, United States
Frey, John H., Alburtis, PA, United States
Hoffman, Robert F., Allentown, PA, United States
Stevens, Robert E., Emmaus, PA, United States
PATENT ASSIGNEE(S): Dow Corning Corporation, Midland, MI, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5492939 | | 19960220 |
| APPLICATION INFO.: | US 1995-420529 | | 19950412 (8) |
| DISCLAIMER DATE: | 20120711 | | |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1994-283012, filed on 29 Jul 1994, now patented, Pat. No. US 5432206 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Foelak, Morton | | |
| LEGAL REPRESENTATIVE: | Gearhart, Richard I. | | |
| NUMBER OF CLAIMS: | 10 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 688 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Silicone surfactants having a siloxane backbone and polyether pendants having average atomic masses of 2250. The surfactants of the invention operate in polyurethane foam compositions to provide stable foams over a range of surfactant concentrations while still producing product foams without splits. Also disclosed and claimed are polyurethane foam compositions which include the surfactants, a method of making polyurethane foam using the surfactants, and polyurethane foam made by the method.

L8 ANSWER 40 OF 77 USPATFULL
ACCESSION NUMBER: 95:62756 USPATFULL
TITLE: Polyether silicone surfactants for the manufacture of urethane foams
INVENTOR(S): Stanga, Michael A., Midland, MI, United States
Frey, John H., Alburtis, PA, United States
Hoffman, Robert F., Allentown, PA, United States
Stevens, Robert E., Emmaus, PA, United States
PATENT ASSIGNEE(S): Dow Corning Corporation, Midland, MI, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5432206 | | 19950711 |
| APPLICATION INFO.: | US 1994-283012 | | 19940729 (8) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Foelak, Morton
LEGAL REPRESENTATIVE: Gearhart, Richard I.
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
LINE COUNT: 684
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Silicone surfactants having a siloxane backbone and polyether pendants having average atomic masses of 2250. The surfactants of the invention operate in polyurethane foam compositions to provide stable foams over a
range of surfactant concentrations while still producing product foams without splits. Also disclosed and claimed are polyurethane foam compositions which include the surfactants, a method of making polyurethane foam using the surfactants, and polyurethane foam made by the method.

L8 ANSWER 41 OF 77 USPATFULL
ACCESSION NUMBER: 95:5718 USPATFULL
TITLE: Hard surface detergent compositions
INVENTOR(S): Michael, Daniel W., Cincinnati, OH, United States
Maile, Michael S., Maineville, OH, United States
PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5382376 | | 19950117 |
| APPLICATION INFO.: | US 1993-105702 | | 19930817 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1992-955610, filed on 2 Oct 1992, now abandoned | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Hollrah, Glennon H.
ASSISTANT EXAMINER: Cebulak, Mary C.
LEGAL REPRESENTATIVE: Aylor, Robert B.
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
LINE COUNT: 663
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Detergent compositions with excellent spotting/filming characteristics comprising propylene glycol/ethylene glycol block **copolymer** nonionic detergent surfactant, preferably in a surfactant mixture with a
nonionic detergent surfactant having a conventional hydrocarbon hydrophobic group and a mixed propylene glycol/ethylene glycol hydrophilic group; optional hydrophobic cleaning solvent; and optional suds control system preferably comprising fatty acid and anionic sulfonated and/or sulfated detergent surfactant. The compositions are preferably in the form of aqueous liquids and preferably have monoethanolamine and/or beta-aminoalkanol present.

L8 ANSWER 42 OF 77 USPATFULL
ACCESSION NUMBER: 94:108967 USPATFULL
TITLE: Polycarboxylic acid thickeners, emulsifiers, and suspending aids having improved wettability characteristics
INVENTOR(S): Adams, Daniel J., Cuyahoga Falls, OH, United States
Amjad, Zahid, Brecksville, OH, United States
Lemma, Solomon, Broadview Heights, OH, United States
Long, II, Carl J., Elyria, OH, United States
PATENT ASSIGNEE(S): The B. F. Goodrich Company, Akron, OH, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5373044 | | 19941213 |
| APPLICATION INFO.: | US 1994-198007 | | 19940217 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1992-935616, filed on 26 Aug 1992, now patented, Pat. No. US 5288814 | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Seidleck, James J.
ASSISTANT EXAMINER: Zemel, I.
LEGAL REPRESENTATIVE: Moxon, II, George W.
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 1
LINE COUNT: 1067
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A polymeric thickener, emulsifier or suspension aid having improved wettability which is an interpolymer of at least one olefinically unsaturated carboxylic acid containing at least one activated carbon-to-carbon olefinic double bond and at least one carboxyl group, in an amount of more than 15% by weight based upon the weight of the interpolymer, and at least one steric stabilizer surfactant having at least one hydrophilic moiety and at least one hydrophobic moiety and a **linear block** or a random comb configuration, or
mixtures thereof, where the interpolymer has admixed therewith a wetting
additive such as a low surface tension surfactant, a glycol, a polyhydric alcohol or mixtures thereof, and a process for dispersing the
interpolymer by adding a low surface tension surfactant to the water into which the interpolymer is being dispersed.

L8 ANSWER 43 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1993:581450 CAPLUS
DOCUMENT NUMBER: 119:181450
TITLE: Synthesis and properties of novel linear-dendritic block **copolymers**. Reactivity of dendritic macromolecules toward linear polymers
AUTHOR(S): Gitsov, Ivan; Wooley, Karen L.; Hawker, Craig J.; Ivanova, Pavlina T.; Frechet, Jean M. J.
CORPORATE SOURCE: Dep. Chem., Cornell Univ., Ithaca, NY, 14853-1301, USA
SOURCE: Macromolecules (1993), 26(21), 5621-7
CODEN: MAMOBX; ISSN: 0024-9297
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The reactivity of benzylic dendritic polyethers toward linear polymers was
investigated using coupling reactions of preformed dendritic and **linear blocks** in soln. and in the melt. The rate consts. for the Williamson reaction of polyethylene glycol (I) with dendritic bromides of various sizes increased with increasing length of the **linear block** and the generation no. of the dendrimer. This anomalous behavior was attributed to the increased reactivity of the I alcoholate anions due to the solvation of the counterion by the **linear block** and to the conformation changes occurring after attachment of the first dendritic block to I. The
functional group of the dendrimer preserved its accessibility and reactivity even in highly restrictive medium and was able to participate in transesterification reactions with I in the melt. Thus, block **copolymers** that differed by a single linking bond between the linear and dendritic blocks were formed.

L8 ANSWER 44 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1994:307054 CAPLUS
DOCUMENT NUMBER: 120:307054
TITLE: Polyoxyethylene modified poly(dimethyl siloxane) as emulsifier for silicone
AUTHOR(S): Harashima, Asao; Mikami, Ryuzo; Harada, Nobuaki; Kondo, Hidetoshi; Sasaki, Atushi; Hamachi, Tadashi
CORPORATE SOURCE: Dow Corning Toray Silicone Co., Ltd., Japan
SOURCE: Journal of SCCJ (1993), 27(3), 484-7
CODEN: JOSCDQ; ISSN: 0387-5253
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
AB The emulsifying ability of polyoxyethylene-modified polydimethyl siloxane (POES) in silicone-water system was investigated. Nine kinds of POES were synthesized by addn. reaction of SiH and CH2:CH in the presence of the Pt catalyst. These were divided into 3 types: polyoxyethylene (A)-polydimethyl siloxane (B) **linear block copolymer**, A-B-A **linear block copolymer** and branched **copolymer** with side chain of A. The emulsifying ability of these POES was evaluated by observing the phys. appearance of the mixt. of each silicone and water with 4% of POES. Some of A-B and A-B-A linear **copolymer** showed higher emulsifying ability than the branched **copolymer**. These **copolymers** are considered as promising emulsifiers for silicone.

L8 ANSWER 45 OF 77 USPATFULL
ACCESSION NUMBER: 92:106751 USPATFULL
TITLE: Method of performing tissue plasminogen activator assay
INVENTOR(S): Ranby, Mats G., Ume.ang., Sweden
Wiman, Tor-Bjorn, Sollentuna, Sweden
PATENT ASSIGNEE(S): Biopool International, Inc., Ventura, CA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5175087 | | 19921229 |
| APPLICATION INFO.: | US 1989-392684 | | 19890811 (7) |

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1989-355948, filed on 23 May 1989 which is a continuation-in-part of Ser. No. US 1987-70068, filed on 6 Jul 1987, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Naff, David M.
ASSISTANT EXAMINER: Reardon, Timothy J.
LEGAL REPRESENTATIVE: Jones, Askew & Lunsford
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 868
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to an improved method for collecting blood. The present invention also relates to a method of collecting blood whereby tissue plasminogen, tissue plasminogen activator inhibitor and other serine proteases, serine protease inhibitors and components that are produced or destroyed through the action of serine proteases in collected blood are stabilized. In addition, the present invention provides a method for collecting blood that reduces the hemolysis (lysis of red blood cells). Using the blood collecting method of the present invention, reliable control plasmas can be manufactured.

L8 ANSWER 46 OF 77 USPATFULL
ACCESSION NUMBER: 92:5315 USPATFULL
TITLE: Enzymatic liquid detergent compositions containing nonionic **copolymeric** stabilizing agents for included lipolytic enzymes
INVENTOR(S): Hessel, John F., Metuchen, NJ, United States
Cardinali, Martin S., Millington, NJ, United States
Aronson, Michael P., West Nyack, NY, United States
PATENT ASSIGNEE(S): Lever Brothers Company, Division of Conopco, Inc., New York, NY, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5082585 | | 19920121 |
| APPLICATION INFO.: | US 1990-472685 | | 19900131 (7) |
| DISCLAIMER DATE: | 20070313 | | |

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1989-305878, filed on 2 Feb 1989, now patented, Pat. No. US 4908150
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lieberman, Paul
ASSISTANT EXAMINER: Beadles-Hay, A.
LEGAL REPRESENTATIVE: Farrell, James J.
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
LINE COUNT: 519
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to enzymatic liquid detergent compositons comprising lipolytic enzymes. The stability of the lipolytic enzymes is significantly improved therein by inclusion of particular nonionic ethylene glycol containing **copolymers** therein. These polymers comprise ethylene oxide or ethylene glycol, **copolymerized** with difunctional acids or vinylic based **copolymers**. The liquids are obtained without the aid of hydrocarbon solvents.

L8 ANSWER 47 OF 77 USPATFULL
ACCESSION NUMBER: 91:30337 USPATFULL
TITLE: Matrix for release of active ingredients
INVENTOR(S): Lee, Chi-Long, Midland, MI, United States
Gornowicz, Gerald A., Midland, MI, United States
PATENT ASSIGNEE(S): Dow Corning Corporation, Midland, MI, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 5008115 | | 19910416 |
| APPLICATION INFO.: | US 1990-487478 | | 19900302 (7) |

RELATED APPLN. INFO.: Division of Ser. No. US 1988-184731, filed on 22 Apr 1988, now patented, Pat. No. US 4908208
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Page, Thurman
ASSISTANT EXAMINER: Webman, Edward J.
LEGAL REPRESENTATIVE: Hermann, Howard W.
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
LINE COUNT: 505
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A matrix for delivery of active substances such as fragrances and pheromones into the atmosphere is provided which matrix is active substance permeable (including to hydrophilic substances) and is formed of a **copolymer** which can be softened sufficiently at temperature between 45.degree. C. and 160.degree. C. to incorporate the substances therein without damage caused by heat or chemical reactions, the matrix being formed of a substantially **linear block copolymer** which is a reaction product of a polydiorganosiloxane which forms soft segments in said reaction product and a diisocyanate which forms hard segments, said **copolymer** having a glass transition temperature between 45.degree. C. and 160.degree. C. said soft segments comprising from 70 to 99 percent by weight, based on the weight of said **copolymer**, the average molecular weight of the **copolymer** being between 15,000 and 500,000.

L8 ANSWER 48 OF 77 USPATFULL
ACCESSION NUMBER: 90:66713 USPATFULL
TITLE: Heat sealable membrane for transdermal drug release
INVENTOR(S): Pfister, William R., Bay City, MI, United States
Lee, Chi-Long, Midland, MI, United States
Gornowicz, Gerald A., Midland, MI, United States
PATENT ASSIGNEE(S): Dow Corning Corporation, Midland, MI, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4951657 | | 19900828 |
| APPLICATION INFO.: | US 1988-184750 | | 19880422 (7) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Pellegrino, Stephen C. | | |
| ASSISTANT EXAMINER: | Rose, Sharon | | |
| LEGAL REPRESENTATIVE: | Maki, Allen O. | | |
| NUMBER OF CLAIMS: | 10 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 586 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A transdermal drug delivery system, is provided which includes, in combination, an impermeable backing member, a release rate controlling membrane, and, a reservoir containing a medicinally active ingredient; the improvement in such system is based on the fact that said membrane is heat and pressure sealed to said backing without the use of a separate adhesive and is formed of a substantially **linear block copolymer** which is a reaction product of an amino functional polydiorganosiloxane which forms soft segments in said reaction product and a diisocyanate which forms "hard" segments, said **copolymer** having a glass transition temperature between 50.degree. C. and 200.degree. C. said soft segments comprising from 60 to 90 percent by weight, based on the weight of said **copolymer**.

L8 ANSWER 49 OF 77 USPATFULL
ACCESSION NUMBER: 90:56098 USPATFULL
TITLE: Continuous release formulations
INVENTOR(S): Churchill, Jeffrey R., Northwich, United Kingdom
Hutchinson, Francis G., Lymm, United Kingdom
PATENT ASSIGNEE(S): Imperial Chemical Industries, London, England (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4942035 | | 19900717 |
| APPLICATION INFO.: | US 1985-716651 | | 19850327 (6) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1983-485454, filed on 15 Apr 1983, now patented, Pat. No. US 4526938 | | |
| PRIORITY INFORMATION: | GB 1982-11704 | | 19820422 |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Waddell, Frederick E. | | |
| LEGAL REPRESENTATIVE: | Cushman, Darby & Cushman | | |
| NUMBER OF CLAIMS: | 6 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 575 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Pharmaceutical compositions comprising a pharmacologically active polypeptide and a pharmacologically or veterinarily acceptable amphipathic, non-cross-linked linear, branched or graft block **copolymer**, which has a minimum weight average molecular weight of 5,000, in which the hydrophobic component is biodegradable and the hydrophilic component may or may not be biodegradable, the composition being capable of absorbing water to form a hydrogel when placed in an aqueous, physiological-type environment; **copolymers** suitable for use in said compositions; and method for the manufacture of such **copolymers**.

L8 ANSWER 50 OF 77 USPATFULL
ACCESSION NUMBER: 90:42406 USPATFULL
TITLE: Biocompatible polymer articles
INVENTOR(S): Ruckenstein, Eli, Amherst, NY, United States
Chung, Dennis B., Upper Marlboro, MD, United States
PATENT ASSIGNEE(S): State University of New York, Albany, NY, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4929510 | | 19900529 |
| APPLICATION INFO.: | US 1988-187731 | | 19880429 (7) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Buffalow, Edith | | |
| LEGAL REPRESENTATIVE: | Park, Ellen K., Dunn, Michael L. | | |
| NUMBER OF CLAIMS: | 15 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 11 Drawing Figure(s); 5 Drawing Page(s) | | |
| LINE COUNT: | 815 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A polymer article and a method for making the polymer article. The polymer article includes a hydrophobic polymer substrate and a block **copolymer**. The block **copolymer** has at least first and second blocks. The first block is more hydrophobic than the second block. The molecules of the block **copolymer** are secured into the surface of said substrate by means of the first block and at least a portion of the second block, outwardly extends from the surface of the substrate into the environment.

The method for making the polymer article, comprising a block **copolymer** and a hydrophobic substrate, comprises the steps of: (a) forming a solution of a block **copolymer** and a solvent which will solubilize said block **copolymer** and swell said substrate. The block **copolymer** has at least a first and second block. The first block is more hydrophobic than the second; (b) treating a hydrophobic substrate with the solution for a sufficient time to swell the substrate surface and enable at least a part of the more hydrophobic block to be deposited on the substrate; (c) removing block **copolymer** deposited substrate from the solvent; and, (d) placing block **copolymer** deposited substrate in water for a predetermined time until said block **copolymer** is oriented such that the more hydrophobic block is entrapped in the substrate and the less hydrophobic block is exposed to water.

L8 ANSWER 51 OF 77 USPATFULL
ACCESSION NUMBER: 90:19411 USPATFULL
TITLE: Matrix for release of active ingredients
INVENTOR(S): Lee, Chi-Long, Midland, MI, United States
Gornowicz, Gerald A., Midland, MI, United States
PATENT ASSIGNEE(S): Dow Corning Corporation, Midland, MI, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4908208 | | 19900313 |
| APPLICATION INFO.: | US 1988-184731 | | 19880422 (7) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Jacobs, Lewis T. | | |
| ASSISTANT EXAMINER: | Dean, Jr., Ralph H. | | |
| LEGAL REPRESENTATIVE: | Maki, Allan O. | | |
| NUMBER OF CLAIMS: | 7 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 506 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A matrix for delivery of active substances such as fragrances and pheromones into the atmosphere is provided which matrix is active substance permeable (including to hydrophilic substances) and is formed of a **copolymer** which can be softened sufficiently at temperature between 45.degree. C. and 160.degree. C. to incorporate the substances therein without damage caused by heat or chemical reactions, the matrix being formed of a substantially **linear block copolymer** which is a reaction product of a polydiorganosiloxane which forms soft segments in said reaction product and a diisocyanate which forms hard segments, said **copolymer** having a glass transition temperature between 45.degree. C. and 160.degree. C. said soft segments comprising from 70 to 99 percent by weight, based on the weight of said **copolymer**, the average molecular weight of the **copolymer** being between 15,000 and 500,000.

L8 ANSWER 52 OF 77 USPATFULL
ACCESSION NUMBER: 90:19353 USPATFULL
TITLE: Stabilized lipolytic enzyme-containing liquid detergent composition
INVENTOR(S): Hessel, John F., Metuchen, NJ, United States
Cardinali, Martin S., Millington, NJ, United States
Aronson, Michael P., West Nyack, NY, United States
PATENT ASSIGNEE(S): Lever Brothers Company, New York, NY, United States (U.S. corporation)

| | NUMBER | KIND | DATE | |
|---|---|---|---|---|
| PATENT INFORMATION: | US 4908150 | | 19900313 | |
| APPLICATION INFO.: | US 1989-305878 | | 19890202 | (7) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Willis, Prince E.
LEGAL REPRESENTATIVE: Farrell, James J.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
LINE COUNT: 471
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to isotropic enzymatic liquid detergent compositions comprising lipolytic enzymes. The stability of the lipolytic enzymes is significantly improved therein by inclusion of particular nonionic ethylene glycol containing **copolymers** therein. These polymers comprise ethylene oxide or ethylene glycol, **copolymerized** with difunctional acids or acrylic based **copolymers**. Isotropic liquids are obtained without the aid of hydrocarbon solvents.

The compositions preferably also contain proteolytic enzymes.

L8 ANSWER 53 OF 77 USPATFULL
ACCESSION NUMBER: 90:118 USPATFULL
TITLE: Moisture resistant polyurethanes derived from non-aromatic diisocyanates and polydiorganosiloxanes and a method for preparing same
INVENTOR(S): Gornowicz, Gerald A., Midland, MI, United States
Lee, Chi-Long, Midland, MI, United States
PATENT ASSIGNEE(S): Dow Corning Corporation, Midland, MI, United States (U.S. corporation)

| | NUMBER | KIND | DATE | |
|---|---|---|---|---|
| PATENT INFORMATION: | US 33141 | | 19900102 | |
| | US 4631329 | | 19861223 | (Original) |
| APPLICATION INFO.: | US 1988-140700 | | 19880104 | (7) |
| | US 1985-802880 | | 19851129 | (Original) |

DOCUMENT TYPE: Reissue
FILE SEGMENT: Granted
PRIMARY EXAMINER: Welsh, Maurice J.
LEGAL REPRESENTATIVE: Spector, Robert
NUMBER OF CLAIMS: 16
EXEMPLARY CLAIM: 1
LINE COUNT: 424
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The reduction in tensile strength exhibited in high humidity environments by "soft" polyurethanes prepared from aliphatic or cycloaliphatic diisocyanates can be substantially reduced if the molar ratio of diisocyanate and chain extender to isocyanate-reactive species other than said chain extender in the reaction mixtures from which said polyurethanes are prepared is at least 4.

L8 ANSWER 54 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1990:484842 CAPLUS
DOCUMENT NUMBER: 113:84842
TITLE: Silicone-urethane block **copolymer** heat-sealable membrane for transdermal drug release
INVENTOR(S): Pfister, William Richard; Lee, Chi Long; Gornowicz, Gerald Alphonse
PATENT ASSIGNEE(S): Dow Corning Corp., USA
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 338820 | A2 | 19891025 | EP 1989-303915 | 19890420 |
| EP 338820 | A3 | 19900404 | | |
| EP 338820 | B1 | 19920617 | | |
| R: CH, DE, FR, GB, IT, LI | | | | |
| US 4951657 | A | 19900828 | US 1988-184750 | 19880422 |
| CA 1323148 | A1 | 19931019 | CA 1989-593747 | 19890315 |
| ES 2012717 | A6 | 19900401 | ES 1989-1382 | 19890420 |
| JP 02009814 | A2 | 19900112 | JP 1989-100387 | 19890421 |
| JP 07025667 | B4 | 19950322 | | |

PRIORITY APPLN. INFO.: US 1988-184750 19880422
AB A transdermal drug delivery system, is provided which includes an impermeable backing member, a release rate-controlling membrane and a reservoir contg. a medicinally-active ingredient. The membrane is heat and pressure sealed to the backing without the use of a sep. adhesive and is formed of **linear block copolymer** which is a reaction product of an amino functional polydiorganosiloxane, which forms soft segments, and a diisocyanate, which forms hard segments. The **copolymer** has a glass transition temp. of 50-200.degree., soft segments comprising 60-90 by wt., based on the wt. of the **copolymer**. Methylaminoisobutyl-end blocked polydimethylsiloxane (240.5g) in 700 g toluene was added to 106 g 4,4'-dicyclohexylmethyane diisocyanate in toluene, followed by the addn. of 133.8 g PTMO and 0.3 mL dibutyltin laurate in 133.8 g toluene and of 23.85 g 1,4-butanediol. The mixt. was heated at 100.degree., to give a silicone-urethane block **copolymer**. Several **copolymers** were tested for mech. properties, lack of cytotoxicity, and permeability for progesterone and hydrocortisone.

L8 ANSWER 55 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1990:538500 CAPLUS
DOCUMENT NUMBER: 113:138500
TITLE: Matrix for transdermal drug release comprising a **copolymer** of organosiloxane and polyurethane
INVENTOR(S): Sweet, Randall Paul; Lee, Chi Long; Gornowicz, Gerald Alphonse
PATENT ASSIGNEE(S): Dow Corning Corp., USA
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 338819 | A2 | 19891025 | EP 1989-303914 | 19890420 |
| EP 338819 | A3 | 19900221 | | |
| EP 338819 | B1 | 19931124 | | |
| R: CH, DE, FR, GB, IT, LI | | | | |
| CA 1323473 | A1 | 19931026 | CA 1989-593743 | 19890315 |
| JP 01311016 | A2 | 19891215 | JP 1989-100386 | 19890421 |
| JP 07025668 | B4 | 19950322 | | |

PRIORITY APPLN. INFO.: US 1988-184748 19880422
AB A transdermal drug delivery system is provided which includes an impermeable backing member, a matrix contg. a medicinally active ingredient, and a pressure sensitive adhesive for affixing the system to the skin of a patient. The matrix is drug permeable (including to hydrophilic drugs) and is formed of a **copolymer** which can be softened sufficiently at 45-160.degree. to incorporate the drugs without damage by heat or chem. reactions. The matrix is formed of a **linear block copolymer** which is a reaction product of a polydiorganosiloxane which forms soft segments in the reaction product and a diisocyanate which forms hard segments. The **copolymer** has a glass transition temp. of 45-160.degree.. The soft segments comprise 80-99% based on the wt. of the **copolymer**. The av. mol. wt. of the **copolymer** is 15,000-500,000. 4,4'-Dicyclohexylmethyl diisocyanate (53 g) was refluxed with 1397.2 g N-methylaminoisobutyl-end blocked polydimethylsiloxane, to give a urea **copolymer**. When loaded with 1% progesterone, the **copolymer** showed a release rate of 171 .mu.g/cm2/h.

L8 ANSWER 56 OF 77 USPATFULL
ACCESSION NUMBER: 89:71765 USPATFULL
TITLE: Sulfonated block polyesters useful as soil release agents in detergent compositions
INVENTOR(S): Gosselink, Eugene P., Cincinnati, OH, United States
PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4861512 | | 19890829 |
| APPLICATION INFO.: | US 1988-228814 | | 19880802 (7) |
| DISCLAIMER DATE: | 20041215 | | |

RELATED APPLN. INFO.: Continuation of Ser. No. US 1987-80523, filed on 31 Jul 1987, now abandoned which is a division of Ser. No. US 1985-801020, filed on 22 Nov 1985, now patented, Pat. No. US 4702857, issued on 27 Oct 1987 which is a continuation of Ser. No. US 1984-684511, filed on 21 Dec 1984
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Willis, Prince E.
LEGAL REPRESENTATIVE: Guttag, E. W., Witte, R. C., Yetter, J. J.
NUMBER OF CLAIMS: 16
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 1776
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Block polyesters useful as soil release agents in detergent compositions are disclosed. Preferred polyesters have the formula: ##STR1## wherein each R.sup.1 is a 1,4-phenylene moiety; the R.sup.2 consist essentially of ethylene moieties, 1,2-propylene moieties or a mixture thereof; each X is ethyl or preferably methyl; each n is from about 12 to about 43; u is from about 3 to about 10.

L8 ANSWER 57 OF 77 USPATFULL
ACCESSION NUMBER: 89:49458 USPATFULL
TITLE: Block **copolymer** matrix for transdermal drug release
INVENTOR(S): Sweet, Randall P., Midland, MI, United States
Lee, Chi-long, Midland, MI, United States
Gornowicz, Gerald A., Midland, MI, United States
PATENT ASSIGNEE(S): Dow Corning Corporation, Midland, MI, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4840796 | | 19890620 |
| APPLICATION INFO.: | US 1988-184748 | | 19880422 (7) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Page, Thurman K.
LEGAL REPRESENTATIVE: Maki, Allan O.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
LINE COUNT: 518
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A transdermal drug delivery system, is provided which includes, in combination, an impermeable backing member, a matrix containing a medicinally active ingredient, and a pressure sensitive adhesive for affixing the system to the skin of a patient; the improvement in such system is based on the fact that said matrix is drug permeable (including to hydrophilic drugs) and is formed of a **copolymer** which can be softened sufficiently at temperature between 45.degree. C. and 160.degree. C. to incorporate the drugs therein without damage caused by heat or chemical reactions, the matrix being formed of a substantially **linear block copolymer** which is a reaction product of a polydiorganosiloxane which forms "soft" segments in said reaction product and a diisocyanate which forms "hard" segments, said **copolymer** having a glass transition temperature between 45.degree. C. and 160.degree. C. said soft segments comprising from 80 to 99 percent by weight, based on the weight of said **copolymer**, the average molecular weight of the **copolymer** being between 15,000 and 500,000.

L8 ANSWER 58 OF 77 USPATFULL
ACCESSION NUMBER: 88:14546 USPATFULL
TITLE: Polyoxyalkylene/unsaturated diester reaction product for cellular foam stabilization
INVENTOR(S): Frentzel, Richard L., Clearwater, FL, United States
PATENT ASSIGNEE(S): The Celotex Corporation, Tampa, FL, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4729850 | | 19880308 |
| APPLICATION INFO.: | US 1985-781555 | | 19850930 (6) |

RELATED APPLN. INFO.: Division of Ser. No. US 1985-722248, filed on 11 Apr 1985, now patented, Pat. No. US 4555442 which is a division of Ser. No. US 1984-663627, filed on 22 Oct 1984, now patented, Pat. No. US 4520140 which is a division of Ser. No. US 1983-544301, filed on 21 Oct 1983, now patented, Pat. No. US 4481307 which is a division of Ser. No. US 1982-426581, filed on 29 Sep 1982, now patented, Pat. No. US 4418158 which is a division of Ser. No. US 1981-282322, filed on 10 Jul 1981, now patented, Pat. No. US 4365024
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Terapane, John F.
ASSISTANT EXAMINER: Kilby, Catherine S.
LEGAL REPRESENTATIVE: Grace, James W., Vanecek, Charles W.
NUMBER OF CLAIMS: 38
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1783
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Polyoxyalkylene surfactants for cellular foams can be prepared by reacting a polyoxyalkylene adduct and an esterified unsaturated dibasic acid in the presence of a free-radical initiator.

L8 ANSWER 59 OF 77 USPATFULL
ACCESSION NUMBER: 87:74825 USPATFULL
TITLE: Block polyesters and like compounds useful as soil release agents in detergent compositions
INVENTOR(S): Gosselink, Eugene P., Cincinnati, OH, United States
PATENT ASSIGNEE(S): The Procter & Gamble Company, Cincinnati, OH, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4702857 | | 19871027 |
| APPLICATION INFO.: | US 1985-801020 | | 19851122 (6) |

RELATED APPLN. INFO.: Continuation of Ser. No. US 1984-684511, filed on 21 Dec 1984, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Willis, Prince E.
LEGAL REPRESENTATIVE: Yetter, Jerry J., Goldstein, Steven J., Guttag, Eric W.
NUMBER OF CLAIMS: 40
EXEMPLARY CLAIM: 18
NUMBER OF DRAWINGS: 2 Drawing Figure(s)
LINE COUNT: 1858
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Block polyesters useful as soil release agents in detergent compositions are disclosed. Preferred polyesters have the formula: ##STR1## wherein each R.sup.1 is a 1,4-phenylene moiety; the R.sup.2 consist essentially of ethylene moieties, 1,2-propylene moieties or a mixture thereof; each X is ethyl or preferably methyl; each n is from about 12 to about 43; u is from about 3 to about 10.

L8 ANSWER 60 OF 77 USPATFULL
ACCESSION NUMBER: 87:4909 USPATFULL
TITLE: Ceramic composition and process for use thereof
INVENTOR(S): Meschke, Debra J., Valley Cottage, NY, United States
Hoy, Kenneth L., St. Albans, WV, United States
Theiling, Jr., Louis F., Charleston, WV, United States
PATENT ASSIGNEE(S): Union Carbide Corporation, Danbury, CT, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4638029 | | 19870120 |
| APPLICATION INFO.: | US 1985-747181 | | 19850621 (6) |

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1984-641640, filed on 17 Aug 1984 which is a continuation-in-part of Ser. No. US 1983-468670, filed on 22 Feb 1983, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Michl, Paul R.
LEGAL REPRESENTATIVE: Trinker, Steven T.
NUMBER OF CLAIMS: 39
EXEMPLARY CLAIM: 1
LINE COUNT: 1596
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Ceramic compositions comprising a ceramic material such as alumina, clay, a dispersant and a polymeric binder are prepared using as the polymeric binder a connected branch **copolymer** comprising a core segment, non-crosslinked branched polymer segments attached to the core segment and linear polymer segments connected to the branched polymer segments and bearing terminal groups capable of effecting hydrogen bonding. By using this form of polymeric binder, polymers of relatively high molecular weight can be used, thereby giving good green strength in the greenware, while still keeping the slurry viscosity relatively low.

L8 ANSWER 61 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1987:219131 CAPLUS
DOCUMENT NUMBER: 106:219131
TITLE: Dilution of water-in-oil polymer emulsion with water as flocculant for sewage, paper pulp filtrate, and petroleum oil wastewater treatments
INVENTOR(S): Ezaki, Atsushi; Noto, Mikio; Nitta, Atsuhiko; Arai, Takeo
PATENT ASSIGNEE(S): Mitsui Cyanamid Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 61245835 | A2 | 19861101 | JP 1985-56112 | 19850322 |

PRIORITY APPLN. INFO.: JP 1985-56112 19850322
AB To dil. a water-in-oil emulsion with water at 5-40.degree. (natural weather temp.) without causing turbidity, an emulsion contg. H2O-sol. polymer 40-60, maleic anhydride surfactant I, and a **linear block copolymer** of polyester-polyalkylene oxide (.ltoreq.40%)-polyester is mixed with .gtoreq.1 of polyethylene glycol nonionic surfactant of cloud point 15-60.degree. in an amt. of (with respect to the emulsion or the dilg. water). The I has .gtoreq.1 of R1-4 = C4-48 alkyl and others = H, C1-48 alkyl or alkoxy, C2-48 alkenyl, C6-12 aryl, or C7-12 alkaryl, x .gtoreq.5, and a/b mol ratio (1-3):1 but HLB .ltoreq.14. Thus, an emulsion of dimethylaminoethyl methacrylate quaternized with MeCl was mixed with 4% polyoxyethylene nonylphenyl ether (II) of cloud point 56.degree. or 20.degree. and dild. with H2O at 10.degree. or 30.degree. to contain 0.2% polymer by stirring at 400 rpm by a propeller stirrer for 1 h. No turbidity was obsd., vs. pos. or no or no or pos. with II of cloud point > 80.degree. or 15.degree..

L8 ANSWER 62 OF 77 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1987:219132 CAPLUS
DOCUMENT NUMBER: 106:219132
TITLE: Stable high-cationic water-in-oil polymer emulsion as flocculant for sewage and night soil treatment
INVENTOR(S): Arai, Takeo; Nitta, Atsuhiko; Sato, Toshiyuki
PATENT ASSIGNEE(S): Mitsui Cyanamid Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 61245834 | A2 | 19861101 | JP 1985-56111 | 19850322 |
| JP 04075772 | B4 | 19921201 | | |

PRIORITY APPLN. INFO.: JP 1985-56111 19850322
AB The water-in-oil emulsion contains H2O-sol. polymer (I) 30-60, maleic anhydride polymer surfactant II 0.05-0.15, a **linear block copolymer** of polyester-polyethylene oxide (.ltoreq.40%)-poly ester (III) 0.1-0.40, and breaker surfactant (IV) 0.5-3.5%. I is a **copolymer** of a cationic monomer CH2:CR5COABN+R6R7R8X- (R5 = H or Me, R6,R7 = C1-4 alkyl or C2-4 hydroxyalkyl, R8 = H, C1-4 alkyl, C2-4 hydroxyalkyl, or PhCH2, A = O or NH, B = C1-4 alkylene or C2-4 hydroxyalkylene, and X- = anion) and another monomer; and II has .gtoreq.1 of R1-4 = C4-48 alkyl and others H, C1-48 alkyl or alkoxy, C2-48 alkenyl, C6-12 aryl, or C7-12 alkaryl, x .gtoreq.5, and a/b mol ratio (1-3):1 but HLB .ltoreq.14. Thus, a mixt. of dimethylaminoethyl methacrylate quaternized with MeCl 312.5 as I precursor, iso-PrOH 2 as chain transfer agent, and 1% NaBrO3 2.5 g in deionized H2O and hydrocarbon solvent (Exon LOPS) 217, sorbitan monooleate 18 g, alkenylsuccinic anhydride 0.13 as II precursor, and 12-hydroxystearic acid-polyethylene oxide condensate as III 0.20% were mixed, emulsified, purged with N2, heated at 40.degree., mixed dropwise with 0.1% NaHSO3 during 4-5 h, and then with 3.30% polyoxyethylene nonylphenyl ether (Emulgen 911) as IV. Both the stability on storage and mech. stirring were good, no turbidity on diln. with water occurred, and viscosity was 830 cP, compared to low stabilities, neg., and 760 without II and III; or good and bad stability, neg., and 11,000 with 1.0% III and 8.5% IV but without II (a conventional emulsion).

L8 ANSWER 63 OF 77 USPATFULL
ACCESSION NUMBER: 86:73290 USPATFULL
TITLE: Moisture resistant polyurethanes derived from non-aromatic diisocyanates
INVENTOR(S): Gornowicz, Gerald A., Midland, MI, United States
Lee, Chi-Long, Midland, MI, United States
PATENT ASSIGNEE(S): Dow Corning Corporation, Midland, MI, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4631329 | | 19861223 |
| APPLICATION INFO.: | US 1985-802880 | | 19851129 (6) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Welsh, Maurice J.
LEGAL REPRESENTATIVE: Spector, Robert
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
LINE COUNT: 409
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The reduction in tensile strength exhibited in high humidity environments by "soft" polyurethanes prepared from aliphatic or cycloaliphatic diisocyanates can be substantially reduced if the molar ratio of diisocyanate and chain extender to isocyanate-reactive species other than said chain extender in the reaction mixtures from which said polyurethanes are prepared is at least 4.

L8 ANSWER 64 OF 77 USPATFULL
ACCESSION NUMBER: 85:69577 USPATFULL
TITLE: Polyoxyalkylene/unsaturated diester reaction product for cellular foam stabilization
INVENTOR(S): Frentzel, Richard L., Clearwater, FL, United States
PATENT ASSIGNEE(S): The Celotex Corporation, Tampa, FL, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4555442 | | 19851126 |
| APPLICATION INFO.: | US 1985-722248 | | 19850411 (6) |

RELATED APPLN. INFO.: Division of Ser. No. US 1984-663627, filed on 22 Oct 1984, now patented, Pat. No. US 4520140 which is a division of Ser. No. US 1983-544301, filed on 21 Oct 1983, now patented, Pat. No. US 4481307 which is a division of Ser. No. US 1982-426581, filed on 29 Sep 1982, now patented, Pat. No. US 4418158 which is a division of Ser. No. US 1981-282322, filed on 10 Jul 1981, now patented, Pat. No. US 4365024
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Foelak, Morton
LEGAL REPRESENTATIVE: Grace, James W., Vanecek, Charles W.
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1686
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Polyoxyalkylene surfactants for cellular foams can be prepared by reacting a polyoxyalkylene adduct and an esterified unsaturated dibasic acid in the presence of a free-radical initiator.

L8 ANSWER 65 OF 77 USPATFULL
ACCESSION NUMBER: 85:62529 USPATFULL
TITLE: Reduced build-up pressure-sensitive adhesives
INVENTOR(S): Parsons, Robert E., Painesville, OH, United States
Westcott, Martha L., Leroy Township, Lake County, OH, United States
Johnson, Susan L., Euclid, OH, United States
PATENT ASSIGNEE(S): Avery International Corp., Pasadena, CA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4548845 | | 19851022 |
| APPLICATION INFO.: | US 1983-487305 | | 19830421 (6) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ivy, C. Warren
LEGAL REPRESENTATIVE: Dressler, Goldsmith, Shore, Sutker & Milnamow, Ltd.
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1,20
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1136
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A water-insoluble, normally tacky, pressure-sensitive adhesive is disclosed having reduced build up on a knife blade when that knife blade is utilized to shear a plurality of webs including a layer of the adhesive. The adhesive contains a mixture of non-volatile components including (a) a water-insoluble elastomeric polymer, (b) a tackifier and (c) a polyoxyalkylene polyol present in amount of about 3 to about 45 percent of the total non-volatile weights of components (a), (b) and (c). The adhesive components (a), (b) and (c) are dispersed substantially homogeneously when the adhesive is applied to a substrate.

L8 ANSWER 66 OF 77 USPATFULL
ACCESSION NUMBER: 85:49286 USPATFULL
TITLE: Stable mineral spirit dispersions of carboxyl-containing polymers
INVENTOR(S): George, Jr., Thomas R., Wooster, OH, United States
Lochhead, Jr., Robert Y., Avon Lake, OH, United States
PATENT ASSIGNEE(S): The B. F. Goodrich Company, Akron, OH, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4536528 | | 19850820 |
| APPLICATION INFO.: | US 1984-629040 | | 19840709 (6) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Griffin, Ronald W.
LEGAL REPRESENTATIVE: Kap, George A., Csontos, Alan A.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
LINE COUNT: 529
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Dispersions or slurries of carboxyl-containing polymers in mineral spirits in which the polymer settles and is difficultly redispersible are converted to dispersions or slurries in which the tendency to settle is reduced and which are readily redispersible with minimum agitation are obtained when there is added to the dispersions or slurries a linear or branched block **copolymer** of propylene oxide and ethylene oxide as well as glyceryl tris-12-hydroxystearate and/or mixed saturated C.sub.18 -C.sub.36 fatty acid triglycerides.

L8 ANSWER 67 OF 77 USPATFULL
ACCESSION NUMBER: 85:38903 USPATFULL
TITLE: Continuous release formulations
INVENTOR(S): Churchill, Jeffrey R., Northwich, United Kingdom
Hutchinson, Francis G., Lymm, United Kingdom
PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, London, England (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4526938 | | 19850702 |
| APPLICATION INFO.: | US 1983-485454 | | 19830415 (6) |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | GB 1982-11704 | 19820422 |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lieberman, Allan M.
LEGAL REPRESENTATIVE: Cushman, Darby & Cushman
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 564
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Pharmaceutical compositions comprising a pharmacologically active polypeptide and a pharmacologically or veterinarily acceptable amphipathic, non-cross-linked linear, branched or graft block **copolymer**, which has a minimum weight average molecular weight of 5,000, in which the hydrophobic component is biodegradable and the hydrophilic component may or may not be biodegradable, the composition being capable of absorbing water to form a hydrogel when placed in an aqueous, physiological-type environment; **copolymers** suitable for use in said compositions; and method for the manufacture of such **copolymers**.

L8 ANSWER 68 OF 77 USPATFULL
ACCESSION NUMBER: 85:38902 USPATFULL
TITLE: Polycarbonates having plasticizers with fugitive activity
INVENTOR(S): Hsu, Chin C., Avon Lake, OH, United States
PATENT ASSIGNEE(S): The B. F. Goodrich Company, Akron, OH, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4526937 | | 19850702 |
| APPLICATION INFO.: | US 1984-622620 | | 19840620 (6) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1983-528313, filed on 31 Aug 1983, now abandoned | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ivy, C. Warren
LEGAL REPRESENTATIVE: Kap, George A., Csontos, Alan A.
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1,2,3,4,5
LINE COUNT: 628
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A process for polymerizing olefinically unsaturated carboxylic acids containing at least one activated carbon-to-carbon olefinic double bond and at least one carboxyl group in benzene in the presence of block **copolymers** of propylene oxide and ethylene oxides having molecular weights in the range of greater than about 1600 to about 20,000, resulting in improved yields of carboxyl-containing polymers, such as cross-linked polyacrylic acid as shown by an increase in total solids of the benzene slurry of about 50 percent, the polymers obtained at this higher total solids having increased bulk density.

L8 ANSWER 69 OF 77 USPATFULL
ACCESSION NUMBER: 85:31573 USPATFULL
TITLE: Polyoxyalkylene/unsaturated diester reaction product for cellular foam stabilization
INVENTOR(S): Frentzel, Richard L., Clearwater, FL, United States
PATENT ASSIGNEE(S): The Celotex Corporation, Tampa, FL, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4520140 | | 19850528 |
| APPLICATION INFO.: | US 1984-663627 | | 19841022 (6) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1983-544301, filed on 21 Oct 1983, now patented, Pat. No. US 4481307 which is a division of Ser. No. US 1982-426581, filed on 29 Sep 1982, now patented, Pat. No. US 4418158 which is a division of Ser. No. US 1981-282322, filed on 10 Jul 1981, now patented, Pat. No. US 4365024 | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Foelak, Morton
LEGAL REPRESENTATIVE: Grace, James W., Vanecek, Charles W.
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1696
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Polyoxyalkylene surfactants for cellular foams can be prepared by reacting a polyoxyalkylene adduct and an esterified unsaturated dibasic acid in the presence of a free-radical initiator.

L8 ANSWER 70 OF 77 USPATFULL
ACCESSION NUMBER: 84:62372 USPATFULL
TITLE: Polyoxyalkylene/unsaturated diester reaction product for cellular foam stabilization
INVENTOR(S): Frentzel, Richard L., Clearwater, FL, United States
PATENT ASSIGNEE(S): The Celotex Corporation, Tampa, FL, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4481307 | | 19841106 |
| APPLICATION INFO.: | US 1983-544301 | | 19831021 (6) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1982-426581, filed on 29 Sep 1982, now patented, Pat. No. US 4418158 which is a division of Ser. No. US 1981-282322, filed on 10 Jul 1981, now patented, Pat. No. US 4365024 | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Foelak, Morton
LEGAL REPRESENTATIVE: Grace, James W., Vanecek, Charles W.
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1696
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Polyoxyalkylene surfactants for cellular foams can be prepared by reacting a polyoxyalkylene adduct and an esterified unsaturated dibasic acid in the presence of a free-radical initiator.

L8 ANSWER 71 OF 77 USPATFULL
ACCESSION NUMBER: 83:56235 USPATFULL
TITLE: Polyoxyalkylene/unsaturated diester reaction product for cellular foam stabilization
INVENTOR(S): Frentzel, Richard L., Clearwater, FL, United States
PATENT ASSIGNEE(S): The Celotex Corporation, Tampa, FL, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4418158 | | 19831129 |
| APPLICATION INFO.: | US 1982-426581 | | 19820929 (6) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1981-282322, filed on 10 Jul 1981, now patented, Pat. No. US 4365024 | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Foelak, Morton
LEGAL REPRESENTATIVE: Grace, James W., Vanecek, Charles W.
NUMBER OF CLAIMS: 41
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 1790
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Polyoxyalkylene surfactants for cellular forms can be prepared by reacting a polyoxyalkylene adduct and an esterified unsaturated dibasic acid in the presence of a free-radical initiator.

L8 ANSWER 72 OF 77 USPATFULL
ACCESSION NUMBER: 82:61654 USPATFULL
TITLE: Polyoxyalkylene/unsaturated diester reaction product for cellular foam stabilization
INVENTOR(S): Frentzel, Richard L., Clearwater, FL, United States
PATENT ASSIGNEE(S): The Celotex Corporation, Tampa, FL, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4365024 | | 19821221 |
| APPLICATION INFO.: | US 1981-282322 | | 19810710 (6) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Foelak, Morton
LEGAL REPRESENTATIVE: Grace, James W., Vanecek, Charles W.
NUMBER OF CLAIMS: 37
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1758
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Polyoxyalkylene surfactants for cellular foams can be prepared by reacting a polyoxyalkylene adduct and an esterified unsaturated dibasic acid in the presence of a free-radical initiator.

L8 ANSWER 73 OF 77 USPATFULL
ACCESSION NUMBER: 81:51965 USPATFULL
TITLE: Molding materials containing styrene/acrylonitrile **copolymers** and ethylene oxide/propylene oxide three-block **copolymers**
INVENTOR(S): Hambrecht, Jurgen, Neckargemuend-Dilsberg, Germany, Federal Republic of
Lindenschmidt, Gerhard, Leimen, Germany, Federal Republic of
Regel, Walter, Mutterstadt, Germany, Federal Republic of
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany, Federal Republic of (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4291134 | | 19810922 |
| APPLICATION INFO.: | US 1980-138536 | | 19800409 (6) |

| | NUMBER | DATE |
|---|---|---|
| PRIORITY INFORMATION: | DE 1979-2916668 | 19790425 |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Seccuro, Carman J.
LEGAL REPRESENTATIVE: Keil & Witherspoon
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
LINE COUNT: 422
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Molding materials containing styrene-acrylonitrile **copolymers**, in which an additional essential ingredient is from 0.1 to 2.0% by weight, based on the **copolymer**, of a three-block polymer X-Y-X, where X is a terminal ethylene oxide block and Y is a central propylene oxide block. The proportion of terminal ethylene oxide blocks X, based on block **copolymer**, is from 5 to 20% by weight, while the central propylene oxide block Y has a number-average mean molecular weight of from 700 to 3,000 and its proportion is from 80 to 95% by weight, based on block **copolymer**. The number-average molecular weight of the sum of the two terminal blocks X is from 140 to 1,000.

The novel molding materials may be used for the manufacture of moldings, since the three-block **copolymer** X-Y-X advantageously influences the processing characteristics of styrene-acrylonitrile **copolymers**, and in particular broadens the range of conditions under which they may be injection-molded, without adversely affecting the mechanical properties of the styrene-acrylonitrile **copolymers**. Accordingly, the injection molding scrap rate can be kept very low.

L8 ANSWER 74 OF 77 USPATFULL
ACCESSION NUMBER: 77:63876 USPATFULL
TITLE: Process for prepolymers and products
INVENTOR(S): Schultz, William J., Vadnais Heights, MN, United States
Smith, Samuel, Roseville, MN, United States
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Company, St. Paul, MN, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4061624 | | 19771206 |
| APPLICATION INFO.: | US 1976-708914 | | 19760726 (5) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Griffin, Ronald W.
LEGAL REPRESENTATIVE: Alexander, Cruzan, Sell, Donald M., Clayton, Temple
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
LINE COUNT: 450
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Process for preparing linear terminally differentially electrophilically reactive prepolymers by reacting cyclic ethers or lactones comprising a major proportion of tetramethylene oxide with an initiator represented by the asymmetrical structure

YO.sub.m SO.sub.2 R.sub.n Q,

wherein

Q is a first radical which in anionic form is a non-terminating anion in the polymerization of tetramethylene oxide;

Y is a second radical, free from alkylatable groups, selected from alkyl, alkaryl, aryl, aralkyl and cycloalkyl and having the free valence on a carbon atom devoid of halogen atoms;

n = 0 or 1;

m = 0 or 1; and

R is a divalent bridging radical comprising at least one oxyalkylene radical --(OR').sub.q where q is 1 to 300 and preferably 1 to 50, and R' is alkylene of 2 to 10 carbon atoms, at least half being C.sub.4 H.sub.8.

The differentially electrophilically reactive prepolymers have different reactivity at the two ends so that successive reagents can react with the two ends to give product prepolymers having two unlike terminations. Such product prepolymers can provide segmented **copolymers** having utility as adhesives, elastomers and protective coatings.

L8 ANSWER 75 OF 77 USPATFULL
ACCESSION NUMBER: 77:24043 USPATFULL
TITLE: Organosilicone polymers in polyurethane foams for carpet backing
INVENTOR(S): Prokai, Bela, Mahopac, NY, United States
Kanner, Bernard, West Nyack, NY, United States
PATENT ASSIGNEE(S): Union Carbide Corporation, New York, NY, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4022941 | | 19770510 |
| APPLICATION INFO.: | US 1975-644831 | | 19751229 (5) |

RELATED APPLN. INFO.: Division of Ser. No. US 1974-483660, filed on 27 Jun 1974, now patented, Pat. No. US 3947386 which is a division of Ser. No. US 1971-212729, filed on 27 Dec 1971, now patented, Pat. No. US 3836560 which is a continuation-in-part of Ser. No. US 1971-122164, filed on 8 Mar 1971, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Cockeram, H.S.
LEGAL REPRESENTATIVE: Finnegan, Reynold J.
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1,16
LINE COUNT: 1854
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Linear siloxane-polyoxyalkylene (AB).sub.n block **copolymers** having an average molecular weight of at least about 30,000, compositions of polyurethane-forming froths containing said **copolymers**, the curable froths produced from said compositions, methods for utilizing said froths as well as the cured foams and articles produced therefrom, said froths having utility in the production of molded polyurethane foam articles, foam backings for carpeting and fabrics, coatings for wire, cable and other articles, small cavity encapsulations, and the like.

L8 ANSWER 76 OF 77 USPATFULL
ACCESSION NUMBER: 77:23825 USPATFULL
TITLE: Process for preparing shaped, foamed polyurethane articles
INVENTOR(S): Prokai, Bela, Mahopac, NY, United States
Kanner, Bernard, West Nyack, NY, United States
PATENT ASSIGNEE(S): Union Carbide Corporation, New York, NY, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4022722 | | 19770510 |
| APPLICATION INFO.: | US 1975-644841 | | 19751229 (5) |

RELATED APPLN. INFO.: Division of Ser. No. US 1974-483660, filed on 27 Jun 1974, now patented, Pat. No. US 3947386 which is a division of Ser. No. US 1971-212729, filed on 27 Dec 1971, now patented, Pat. No. US 3836560 which is a continuation-in-part of Ser. No. US 1971-122164, filed on 8 Mar 1971, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Cockeram, H.S.
LEGAL REPRESENTATIVE: Finnegan, Reynold J.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
LINE COUNT: 1808
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Linear siloxane-polyoxyalkylene (AB).sub.n block **copolymers** having an average molecular weight of at least about 30,000, compositions of polyurethane-forming froths containing said **copolymers**, the curable froths produced from said compositions, methods for utilizing said froths as as well as the cured foams and articles produced therefrom, said froths having utility in the production of molded polyurethane foam articles, foam backings for carpeting and fabrics, coatings for wire, cable and other articles, small cavity encapsulations, and the like.

L8 ANSWER 77 OF 77 USPATFULL
ACCESSION NUMBER: 77:2475 USPATFULL
TITLE: Adhesive material and articles incorporating same
INVENTOR(S): Schwarcz, Andor, Niskayuna, NY, United States
PATENT ASSIGNEE(S): Nashua Corporation, Nashua, NH, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---|---|---|---|
| PATENT INFORMATION: | US 4002794 | | 19770111 |
| APPLICATION INFO.: | US 1975-597080 | | 19750718 (5) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Jacobs, Lewis T.
LEGAL REPRESENTATIVE: Kenway & Jenney
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
LINE COUNT: 1117
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A **copolymeric** material is provided in accordance with this invention which is the reaction product of a di (omega-thio-organo) dimethyl siloxane oligomer having terminal active hydrogen groups and a difunctional organic compound having terminal isocyanate groups. The siloxane-thiourethane **copolymer** provides good release per se from tacky adhesive masses or when combined with other film formers.